



# iPhone 5

Our First Look at Apple's New Phone: Thinner, Faster, Lighter

# Macworld

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November 2012

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for the operating MacUser

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COVER PHOTOGRAPH BY

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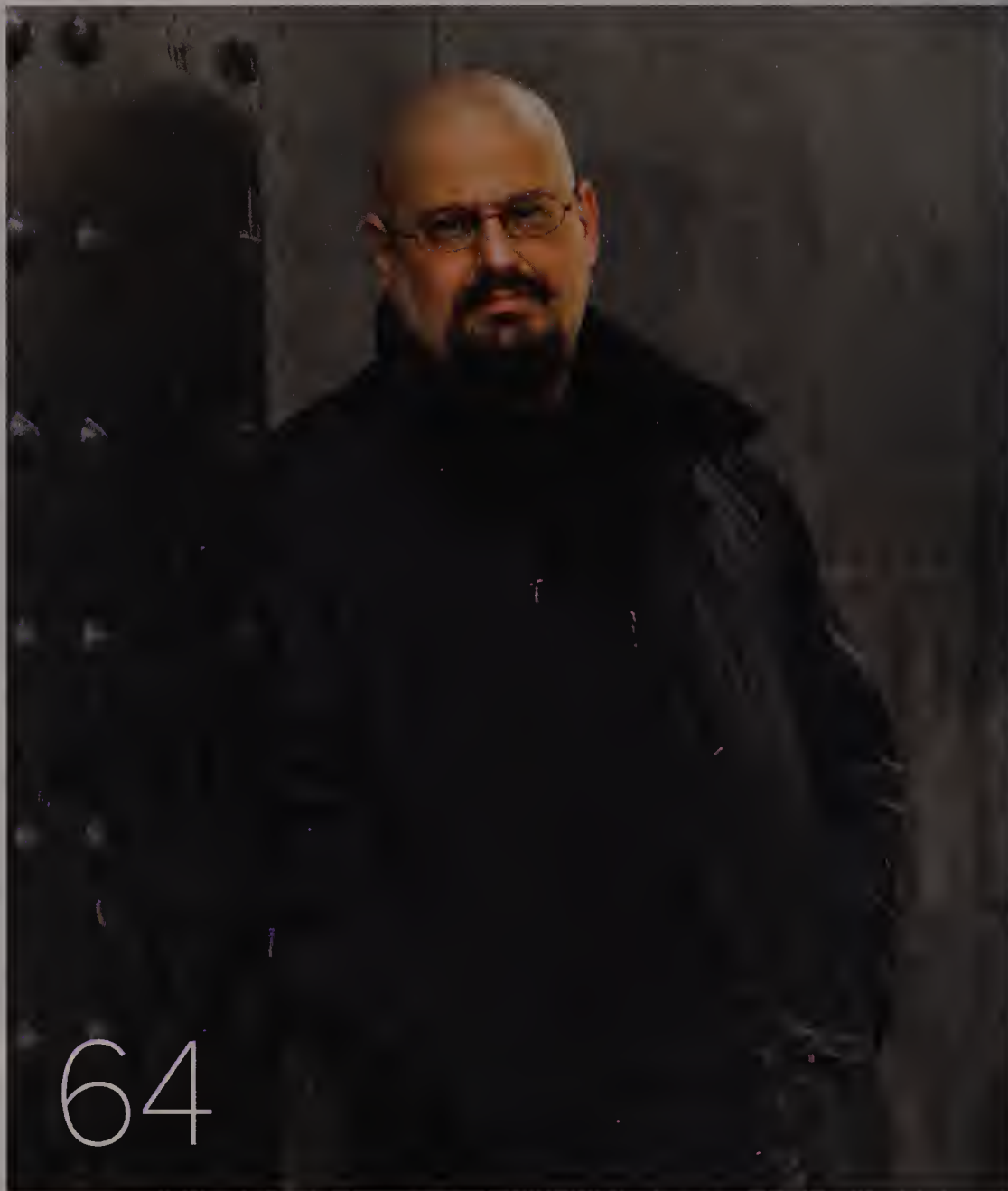
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### Macworld PODCASTS



#### Podcast: Mountain Lion Tips

Christopher Breen offers tricks and techniques for working with the latest OS X ([macworld.com/a/1168152](http://macworld.com/a/1168152)).

#### We also recommend:

Podcast: Twitter's patent troubles ([macworld.com/a/1168336](http://macworld.com/a/1168336)).

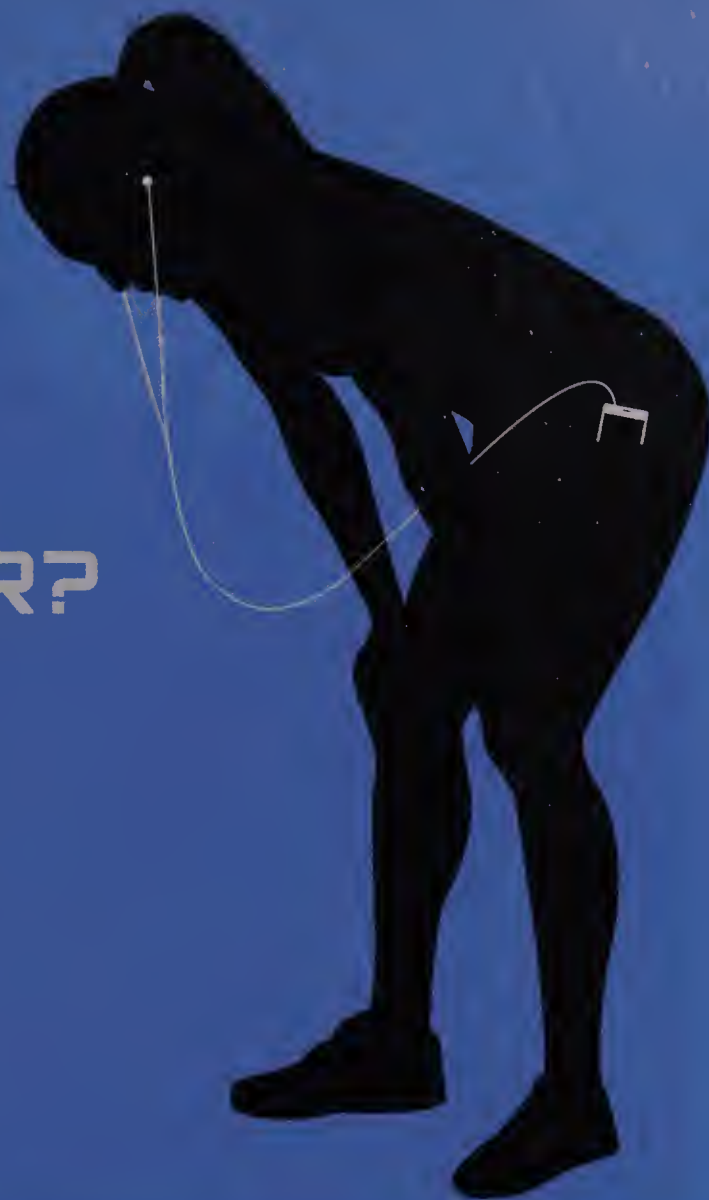
Video: How to export uncompressed podcasts ([macworld.com/a/1168435](http://macworld.com/a/1168435)).

Podcast: How one tech journalist got hacked ([macworld.com/a/1168070](http://macworld.com/a/1168070)).

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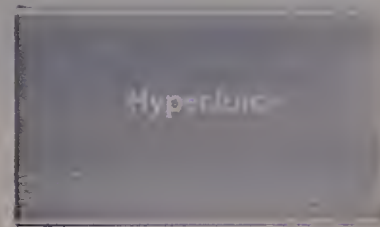
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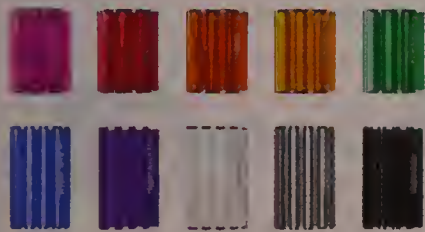
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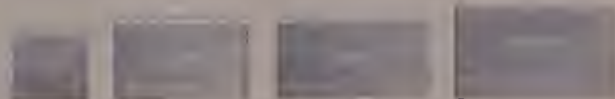
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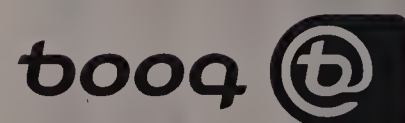
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## Open Secret

Sure, the iPhone 5 isn't revolutionary—it's how Apple rolls, and people will buy it.

For one of the world's largest and most analyzed companies, Apple seems more mysterious than it is. In a form of reverse insanity, Apple keeps doing the same things while almost everyone observing it keeps expecting a different result.

Consider the company's September 12 announcement of the iPhone 5 (see page 24), as well as several new iPod models. After the event, I kept hearing people grouching that Apple hadn't unveiled a revolutionary new product. Never mind that the company only rarely does so—the iPhone in 2007 and the iPad in 2010 being the two best examples.

In fact, most of Apple's events focus on how it improves its products in a relentless cycle of upgrades. As John Gruber put it after the unveiling of the original iPad (*Spotlight*, April 2010, [macworld.com/7973](http://macworld.com/7973)), this is how Apple rolls.

The iPhone 5 is recognizably an iPhone. Compared to an iPhone 4S, it's lighter and smaller, has a bigger screen, is powered by a faster processor, runs on faster wireless networking standards, has better front and back cameras, and offers a newer, more compact cable connector called Lightning. Compare the 4S to the iPhone 4, and you'd find similar upgrades. Compare the iPhone 4 to the 3GS, and you'll find a Retina display, a smaller and thinner profile, and a much better camera. Compare the 3GS to the iPhone 3G, and you'll find a dramatically faster device with a better camera. Compare the iPhone 3G to the original iPhone, and you'll find support for much faster wireless networking. Compare the original iPhone to all previous smartphones, and there's your revolution. Everything since then has simply been evolution.

Apple has shown that evolution works. My former *Macworld* colleague Mat Honan, now writing for *Wired*, calls the



Apple doesn't get enough credit for its skill in building apps or for its evolutionary upgrades to products like the iPhone.

iPhone 5 "Completely Amazing and Utterly Boring." That it doesn't reinvent the entire smartphone market is irrelevant. Apple has already done that.

### It's the Software

Recently I spent quite a lot of time with a Nexus 7, the \$299, 7-inch Android tablet from Google and Asus that many consider one of the better non-iPad tablets. It's an attractive, light device, and the latest version of Android, named Jelly Bean, shows a level of polish that was severely lacking in earlier versions.

But what really struck me most about the Nexus 7 was the lack of compelling software. The Google Play store is full of apps, it's true, but not very many that I would consider *good* apps, and even fewer of those are designed well for a tablet as opposed to a smartphone.

Using the Nexus 7 reminded me that

one of Apple's core competencies is its ability to write software. Specifically, apps.

The built-in apps on iOS are first class, and Apple's other iOS apps are likewise impressive. iWork set the bar incredibly high for iPad apps. iPhoto is an audacious attempt to bring deep complexity to a touch-based app. And GarageBand and iMovie are remarkable examples of software for small, touch-based devices.

Nothing like that is on the Nexus 7 or other Android tablets right now. Google's apps are decent, but not much more than that. And beyond them is a wasteland. With iOS, Apple has *defined* what apps on its devices should be, through its skill in building its own apps. And it doesn't get enough credit for that skill.

### A Digital Magazine, and More

*Macworld's* iPad-based Digital Magazine edition is now available to all print subscribers. Reformatted for the iPad, it contains all of the print issue's material, plus some interactive extras.

To sign up for the Digital Magazine, download the *Macworld* Digital Magazine app from the App Store and visit [macworld.com/subscribe/free\\_digital\\_access](http://macworld.com/subscribe/free_digital_access) to connect your subscription to our digital account files.

Finally, we've launched a new website, TechHive ([www.techhive.com](http://www.techhive.com)). Produced by the same people who have brought you *Macworld* and *PCWorld* over the years, it focuses more broadly on the technology we use in our lives, from photography and streaming media to smartphones, tablets, and whatever the next big product category will be. Over the next few months you may see some TechHive stories in *Macworld*—stories that we think you'll like.

**Jason Snell** is the editorial director of IDG Consumer & SMB.



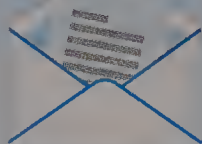
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**CONTRIBUTING PHOTOGRAPHER** Peter Belanger

**CONTRIBUTING DESIGNER** Lori Flynn

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Our offices are located at 501 Second Street, 6th Floor, San Francisco, CA 94107; phone, 415/243-0505; fax, 415/243-3545. Macworld staff can be reached by email at [firstname\\_lastname@macworld.com](mailto:firstname_lastname@macworld.com).

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# Apps, Apps, Everywhere

At *Macworld* this month, we may be celebrating our favorite iOS apps, but we're not discounting the Mac—our readers told us all about their favorite OS X applications, their feelings about the Mac App Store, and even their thoughts on hacking the Mac.

## MAC APP STORE CONCERNS

I've been concerned ever since a few notable developers went "App Store only" (Pixelmator, 1Password). I buy Mac App Store apps as "disposable" software, and only on sale. If one goes away, at least I can console myself that it was cheap. I think that's the wrong message for developers to send about their software.

*BoxOfSnoo, via the Macworld.com forums*

I'm a little peeved to find out that OS X 10.7 (Lion), which I purchased fair and square, is no longer available for download. And before you tell me to pony up the \$20 for 10.8, keep in mind that all of the iMacs in my house are 2006 or earlier—so I can't buy the new OS, but I also

can't ever reinstall the old one if I need to (now that Apple has decided to remove 10.7 from the store completely). That's bogus. If I had bought a hard copy, I would still have an installer disc to keep my older Macs running.

*bcode, via the Macworld.com forums*

Nothing is perfect, but I for one like the Mac App Store and would like to see more applications purchased and installed this way. I'm no more concerned with the future of the Mac App Store than I am about the future of all the apps I've purchased (both within and outside the App Store). Nothing is forever.

*rob53, via the Macworld.com forums*

## WHAT'S YOUR FAVORITE MAC APP?

Our readers tweet about the applications they couldn't live without.

@DonnellyTweet: Flutter. Didn't have an Apple Keyboard for a while so no controls and the confusion on friends' faces was hilarious!

@thestopbutton: bbedit. Since I got it, it's become part of my workflow for almost everything—simple coding, blogging, school work.

@Cameron\_Talley: That would be @ScrivenerApp by Literature and Latte. A must for a writer. So easy to use and powerful, too.

@PTFPhoto: Adobe Lightroom is the heart of my photography biz.

@adamspelbring: iTunes. It's become everything. I buy all music, movies, and TV shows from it.

@BobbyDigital00: I couldn't live without Cinch because it makes multitasking so much easier.

## IN THE SPOTLIGHT

I was shocked and disappointed by Alexandra Samuel's *Spotlight* column in the July issue. For someone who professes to love her Mac so much, she would go to any length to "make my Mac ... mine." Jailbreaking, hackintoshing—it's all intellectual property theft. Theft from the company she so enthusiastically supports. Many people worked very hard for years to develop what you covet.

*Leslie Ann Jones, via email*

[Thank the hackers of the world for their experimentation at the edges of Apple's terms of use: It creates a wellspring of new software and new market opportunities that help fuel the platform's continued evolution.—Alexandra Samuel]

## THROUGH THE LENS: APPY BIRTHDAY

This year for my birthday, my wife worked incredibly hard making me my app cake. She handmade each app icon with fondant icing, and then placed all the icons on top of a big cupcake. Let's just say I was extremely impressed with her handiwork!

—Matt Smeller

Have a great Apple-centric photo? Send it to [letters@macworld.com](mailto:letters@macworld.com), and we may feature it in a future issue.



# MacUser

News and Analysis About Macs, OS X, and Apple



**App Store in Peril** Apple's restrictions may cause the overall quality of Mac apps to decline.

don't belong on users' Macs. But that limitation also has the potential to force apps to undergo significant changes.

Arment believes that because the Mac App Store is bad for developers, the overall quality of apps in it will decrease, which will be bad for everyone.

## The Case Against the Mac App Store

The Mac App Store's restrictions have some precedent, since they have been part of the iOS App Store since day one. But "on the Mac," Arment tells *Macworld*, "the App Store policies are being retrofitted into a well-established environment that they're fairly incompatible with."

That's not to say that the Mac App Store launched without any restrictions. From the start, it lacked upgrade-pricing support, limited root access, and banned apps that tried to tweak elements of the Mac's interface or accessed private APIs (application programming interfaces).

But Arment isn't the only developer who thinks the Mac App Store is troubled: Paul Kafasis of Rogue Amoeba told *Macworld* that he agrees with Arment's contention. Many apps, Kafasis says, "including our own, have never entered the store due to the onerous restrictions in place from day one. Castrating our apps is simply not appealing."

Kafasis recognizes the benefits of the Mac App Store: "[It] made it easy for developers to sell software, without a lot of overhead." But, he adds, "the obstacles to selling software have been shrinking for years ... Selling directly is easier than it's ever been." Kafasis says that Rogue Amoeba is working to sandbox Piezo, but that doing so may be impossible. "If we're unable to do that, we'll have little choice but to shift Piezo from the Mac App Store to direct sales exclusively."

## Why Developers and Customers Should Be Wary of the Mac App Store

At least one developer is claiming that the Mac App Store is headed toward irrelevance. Here's a look at what this means for Mac users.

BY LEX FRIEDMAN

Apple's one-stop shop for Mac apps is becoming more restrictive for the developers who sell apps there.

In a July 26 blog post titled "The Mac App Store's future of irrelevance," Instapaper developer Marco Arment asked, "How many good apps will be pulled from the App Store before Apple cares?" He noted: "My confidence in the App Store, as a customer, has evaporated" since he can no longer be sure that an app he buys

will remain available in the store. "The Mac App Store is in significant danger of becoming an irrelevant, low-traffic flea market where buyers rarely venture for serious purchases," he concluded.

In his post, Arment referred to the most common Mac App Store concern: its sandboxing requirement, which can limit what functionality developers may include in their apps. By demanding that developers sandbox their apps, Apple can ensure that apps won't poke around where they



## In Defense of the Mac App Store

One common response to Arment's arguments is that they apply only to hard-core users who run the powerful apps most likely to get bitten by restrictions. In a follow-up post, Arment countered by suggesting that because geeks are evangelists and thought leaders, their influence reaches typical Mac users too.

Not all developers regard the situation negatively. James Thomson of TLA Systems sells apps in the Mac and iOS stores, and the Mac App Store continues to work out well for him: "We've had PCalc in the Mac App Store since it opened, and we've seen noticeably higher sales from the App Store than through other channels. So, from a visibility and ease-of-purchase point of view, it would seem that [the store is] a success."

That said, Thomson notes that TLA is "in the process of submitting our first update with sandboxing switched on, and we've had to remove an admittedly very minor feature" to do so. "It's not ideal, but we don't really have much of a choice if we want to sell in the store," he says.

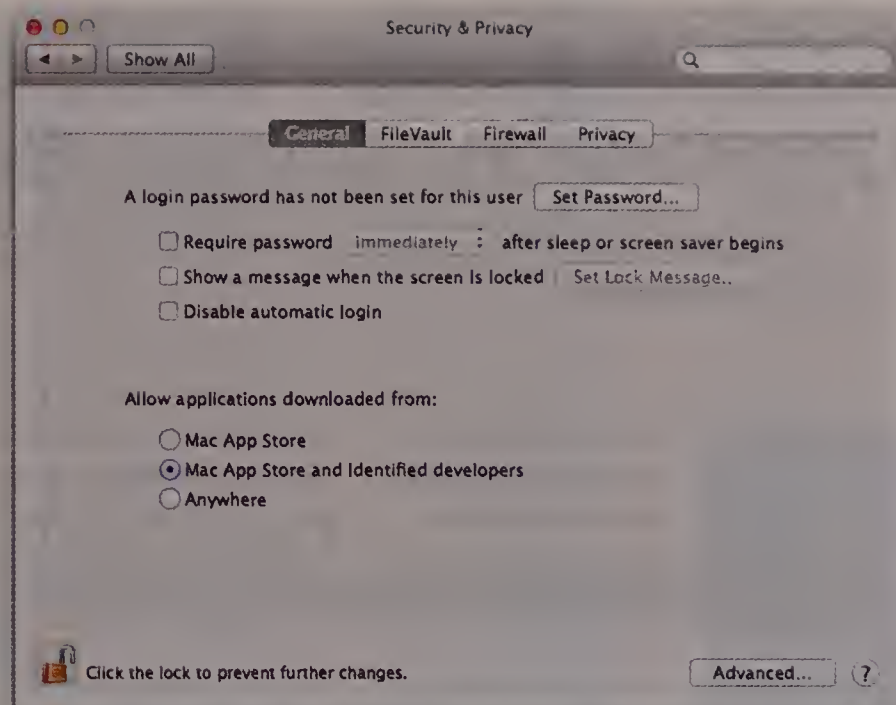
Thomson doesn't necessarily agree with Arment's suggestion that customers

## Additional Restrictions?

Mountain Lion's Gatekeeper feature defaults to allow apps from "identified developers," but Apple may change that in the future.

them and expect future upgrades." Without significant changes, the Mac App Store "will just never become good enough that Apple could require that Macs only run App Store software."

iOS famously runs only those third-party apps that users buy from its App Store. Does Apple hope to make Macs run the same way? The default option in Mountain Lion's new Gatekeeper feature



of years away from only allowing App Store apps, I'd say—probably not in 10.9, but after that it wouldn't surprise me."

Kafasis's opinion: "It would be bad for developers who don't fit into the Mac App Store, certainly, and that's a growing number. It would be bad for users, who would no longer have access to a wide range of very useful products. ... Ultimately, I believe it would be very bad for Apple as well, as their now-thriving Mac platform would be damaged."

## The most common Mac App Store concern is its sandboxing requirement, which can limit what functionality developers may include in their apps.

will increasingly shop for apps elsewhere: "Even though you can see a lot of folk talking about it within our small sphere, I don't think we're the average consumer by any means. Most people will just buy through the store because they are used to the experience from iOS, and it's right there in front of them."

## How the Problem Affects Mac Users

While Arment is quick to clarify that he never intended to suggest that users would "completely abandon the Mac App Store," he adds: "The problem is that it'll be relegated mostly to simple, cheap, often subpar apps, and for the few good apps that remain, users will mistrust the Mac App Store as a stable place to buy

limits Macs to running Mac App Store apps and those from "identified developers" who have registered (for \$99) with Apple but whose titles aren't subject to Mac App Store restrictions. Could a more restrictive Mac App Store setting become the new default—or the only option?

Arment's guess: "I don't think it will happen for a while, but I do think that [limiting Macs to App Store apps is] Apple's eventual goal. And if it does happen, no matter how far in the future that is, I bet we'll all scream that it's too soon."

Thomson's take: "Yes, I can completely see Apple locking things down more in future. But I would expect them to first completely remove the ability to run nonsigned code. ... We're a good couple

## What Mac Users Should Do

If you don't mind Apple's increasingly strict rules for apps, keep shopping on the Mac App Store. But take pause. A developer of an app you love might release a new version with a new price tag. An app you love may be forced to strip out features. Or the developers of an app you love may find that they can't keep it in the Mac App Store anymore.

While the Mac App Store remains a fine place to buy certain titles today, the issues are real, and Apple thus far has displayed its characteristic determination to stick to its current plan. If you're worried, you can start to buy apps directly from developers instead. And you can share your feedback with Apple.

It's definitely too soon to panic. But it's not too soon to be concerned.

**Lex Friedman** is a Macworld staff writer.



# Safari 6 a Slight but Sleek Upgrade for Apple's Browser

Under Mountain Lion, Safari is a blast to use, and its additions, though few, all prove worthwhile

BY NATHAN ALDERMAN

## Review

### RATING



### PRICE

Free

### COMPANY

Apple

### URL

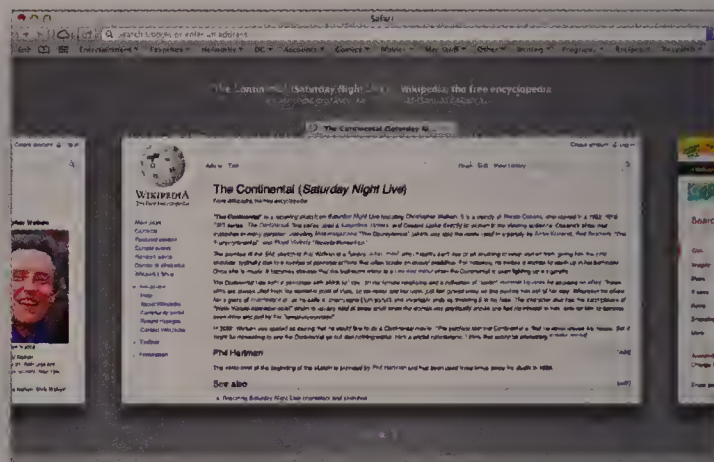
apple.com

Safari 5.1 didn't age gracefully on my older hardware. Although Apple's Web browser still posted fast benchmarks, it grew teeth-grindingly sluggish on multiple tabs. On Lion, Safari 6 similarly left me more aggravated than appreciative. But on Mountain Lion, it's a different beast.

Safari 6 has few new features. But even under Lion, you'll see one of the biggest immediately: Like Mozilla's Firefox (★★★★; [www.mozilla.com/a/1167927](http://www.mozilla.com/a/1167927)),

Safari has consolidated URLs and searches in a single bar at the top. And tabs now expand to take up the window's full span. When you have only two tabs open, they look almost comically broad, but they work well.

Under Lion, though, Safari 6 seemed to wheeze. In my tests it occasionally took ages to load a page. When I tried to switch to another tab during that wait, I'd see a blank



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screen, even if the other page had loaded. And in benchmarks, Safari 6 was 17 percent slower than 5.1.7 in JavaScript performance.

Safari 6 on Mountain Lion attains striking poise. Pages slide smoothly as you swipe on a trackpad, and the contents of a page pour in as it loads. Aside from a split-second fade-out and fade-in while the browser reloads pages, everything feels fast and fluid, even on a 2008 laptop.

That slickness extends to Tab View, another Mountain Lion-only improvement. Pinch the screen on a trackpad (or select View → Show All Tabs, or press Shift-⌘-backslash [N]), and the current window shrinks into a scrolling cavalcade of all your tabs. The result is more usable and graceful than Opera's visual tabs.

Reader mode works like a charm, loading multipage stories and slideshows from various sites in a flash. I would like to see a button to add items to my Reading List, which now downloads and stores articles for offline perusal. I had to instead

use the Share button, which can also add bookmarks and send pages via Mail, Messages, or Twitter (Apple promises Facebook support soon).

Apple also says Cloud Tabs will let you pick up browsing where you left off on your iPhone or iPad. But that feature won't arrive until iOS 6 appears this fall. For now, it works only with other Macs.

In benchmark tests on a 2GHz aluminum MacBook with 2GB of RAM, Safari 6 had

mixed results. It still rules in HTML5 rendering, matching or beating its previous scores and those of every other tested browser.

### Bottom Line

I can't recommend Safari 6 under Lion. Under Mountain Lion, it's a blast to use, and the additions are fine enhancements.

**Nathan Alderman** is a writer and editor based in Alexandria, Virginia.

## Benchmarks: Safari 6

BROWSER	SUNSPIDER	ACID3	HTML5 VECTOR	HTML5 BITMAP	HTML5 TEXT	HTML5 COMPLIANCE
<b>Safari 6.0 (Mountain Lion)</b>	353.7	<b>100</b>	<b>34.53</b>	55.05	<b>20.39</b>	391/11 bonus
<b>Safari 6.0 (Lion)</b>	380.0	<b>100</b>	31.44	<b>56.97</b>	19.21	381/11 bonus
<b>Safari 5.1.7</b>	<b>323.8</b>	<b>100</b>	31.80	54.54	19.90	334/11 bonus
<b>Opera 12</b>	393.3	<b>100</b>	25.22	55.98	20.17	400/9 bonus
<b>Firefox 14.0.1</b>	338.8	97	2.86	13.65	19.29	345/9 bonus
<b>Chrome 20</b>	324.6	97	13.94	24.04	16.24	<b>414/13 bonus</b>

Best results in **bold**. Reference browsers are in italics. The SunSpider JavaScript results are in milliseconds; shorter times are better. The Acid3 result is a score out of 100. HTML5 Vector, Bitmap, and Text test results are in frames per second; higher is better. HTML5 Compliance is a score out of 500.

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# On-Lap 1302: A Portable Second Display for Laptops

BY ROMAN LOYOLA



I prefer having at least two displays on my desk. It's easier to work when I have all that screen real estate. When I unplug my laptop and work remotely, the single display feels cramped.

GeChic's On-Lap 1302 is a 13.3-inch (diagonal) portable display for laptops. Weighing 23 ounces, the On-Lap 1302 is light enough and small enough to stash in your laptop bag, allowing you to have a two-screen setup wherever you go.

The 13.15-by-8.94-by-0.31-inch device has a cable with a display connector on one end and USB and HDMI connectors for your Mac on the other end. (The USB connector provides power to the display.) My Retina MacBook Pro instantly recognized the On-Lap 1302, although I had to do some rearranging in the Displays system preferences.

With a native resolution of 1366 by 768, it's an acceptable secondary screen. The image quality, however, pales in comparison to that of the Retina MacBook Pro's display—or any MacBook display, for that matter. The color quality is fine, but flat. Color gradients have minor banding; the detail is passable, though not especially sharp or crisp.

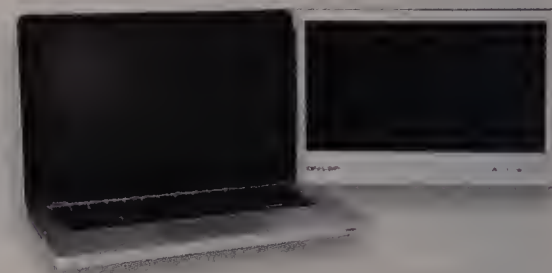
The biggest problem is the viewing angle. It's fine when the screen is in front of you or right next to your main display. If you move to a sharper angle, the degradation in image quality is noticeable. The screen is also susceptible to glare.

GeChic includes a set of Stand Bricks, but they make for a horrible stand—the display ends up facing toward the ceiling, and has a tendency to collapse. The optional Stand Bricks 2 accessory (\$26) has more pieces and creates a much more effective stand. The On-Lap

1302's laptop mount is interesting: A hinge on the left side of the display latches to a Holder Plate that you stick on the back of the laptop with the provided double-sided tape. Over a month's time, the tape didn't seem to weaken, but I do wonder when it will eventually give way. Overall, I preferred the Stand Bricks 2; it's another item to carry around, but it offers the most flexibility and security.

## Bottom Line

The On-Lap 1302 can be helpful when you need more screen space, though you don't want to depend on it when color








**Two-Headed Laptop** A stick-on laptop mount helps you attach the On-Lap 1302 display.

accuracy and extreme detail are part of your tasks. It has issues with viewing angle and glare, but overall it's a useful portable device.

*Roman Loyola is a Macworld senior editor.*

## Macs: Current Lineup

PRODUCT	SPECS	RATING	PRICE	DISPLAY	SPEED-MARK 7 <sup>1</sup>	FIND CODE <sup>2</sup>
<b>DESKTOP</b>						
<b>iMac</b> 	Intel Core i5/2.5GHz (quad-core)	★★★★	\$1199	21.5 inches	211	<a href="#">7197</a>
	Intel Core i5/2.7GHz (quad-core)	★★★★	\$1499	21.5 inches	229	<a href="#">7198</a>
	Intel Core i5/2.7GHz (quad-core)	★★★★	\$1699	27 inches	225	<a href="#">7199</a>
	Intel Core i5/3.1GHz (quad-core)	★★★★	\$1999	27 inches	241	<a href="#">7200</a>
<b>Mac Mini</b> 	Intel Core i5/2.3GHz	★★★★	\$599	not included	132	<a href="#">7429</a>
	Intel Core i5/2.5GHz	★★★★	\$799	not included	161	<a href="#">7430</a>
<b>Mac Pro</b> 	Intel Xeon/3.2GHz (quad-core)	★★★★	\$2499	not included	254	<a href="#">7863</a>
	Intel Xeon/2.4GHz (12-core)	★★★★	\$3799	not included	259	<a href="#">7864</a>
<b>PORTABLE</b>						
<b>MacBook Air</b> 	Intel Core i5/1.7GHz, 64GB	★★★★½	\$999	11 inches	231	<a href="#">7865</a>
	Intel Core i5/1.7GHz, 128GB	★★★★	\$1099	11 inches	251	<a href="#">7866</a>
	Intel Core i5/1.8GHz, 128GB	★★★★½	\$1199	13 inches	291	<a href="#">7867</a>
	Intel Core i5/1.8GHz, 256GB	★★★★½	\$1499	13 inches	324	<a href="#">7868</a>
<b>MacBook Pro</b> 	Intel Core i5/2.5GHz (dual-core)	★★★★	\$1199	13 inches	161	<a href="#">7869</a>
	Intel Core i7/2.9GHz (dual-core)	★★★★	\$1499	13 inches	189	<a href="#">7870</a>
	Intel Core i7/2.3GHz (quad-core)	★★★★	\$1799	15 inches	221	<a href="#">7871</a>
	Intel Core i7/2.6GHz (quad-core)	★★★★½	\$2199	15 inches	239	<a href="#">7872</a>
	Intel Core i7/2.3GHz (quad-core) <sup>3</sup>	★★★★½	\$2199	15 inches	319	<a href="#">7873</a>
	Intel Core i7/2.6GHz (quad-core) <sup>3</sup>	★★★★½	\$2799	15 inches	330	<a href="#">7874</a>

n/a = not available. <sup>1</sup> Speedmark 7 is Macworld Lab's standard test tool for benchmarking systems running Mac OS X 10.7 (Lion). For more information on Speedmark testing, go to [macworld.com/7487](http://macworld.com/7487). <sup>2</sup> In a browser's address field, typing in a find code after [macworld.com/](http://macworld.com/) takes you to a product's review or overview. <sup>3</sup> Equipped with a Retina display.



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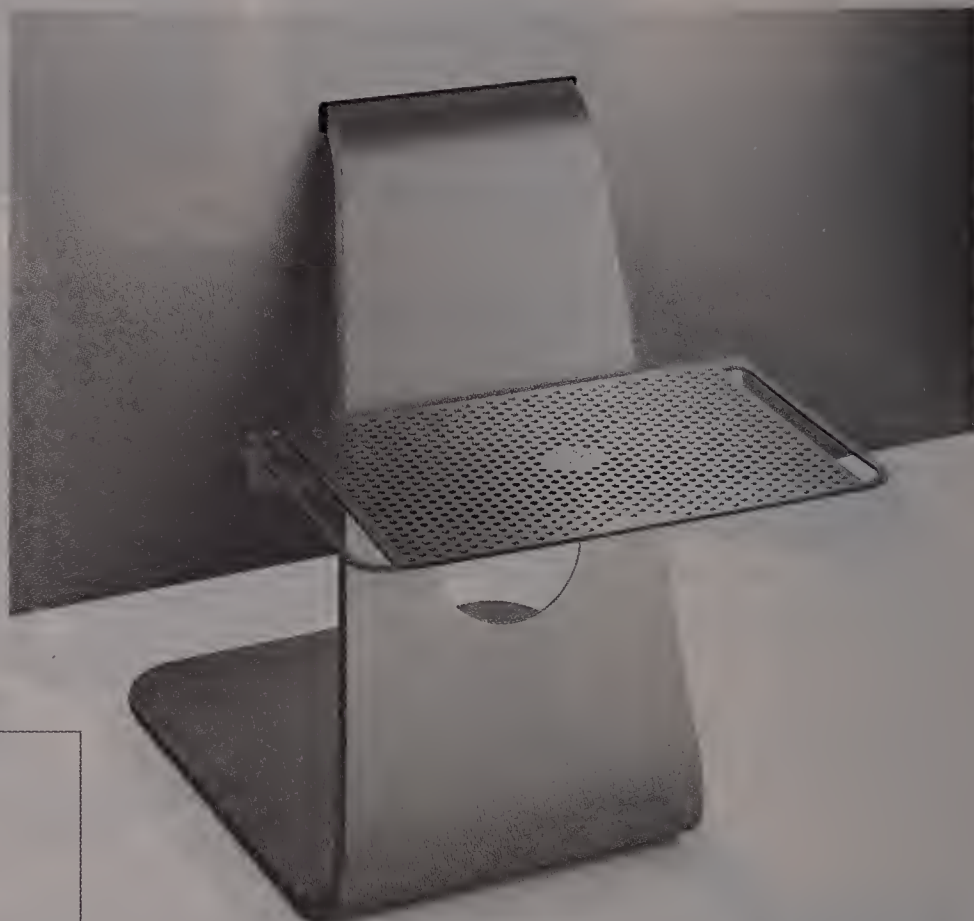
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# Hot Stuff

What We're Raving About This Month

## BackPack 2

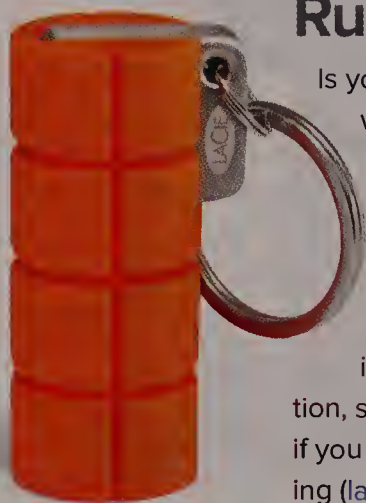
Apple's iMac is known for its space-saving design, and you save even more space with Twelve South's \$35 BackPack 2 accessory, which adds a shelf to the iMac stand. You can hang the BackPack 2 on the front of the iMac so that it's ready to hold your iPhone, or you can place it on the back of the iMac stand and add the included support pegs so that it can hold a laptop, router, or other device. The BackPack 2 also works with Apple's Thunderbolt Display, and can hold a Mac mini or laptop ([twelvesouth.com](http://twelvesouth.com)).—ROMAN LOYOLA



## RuggedKey

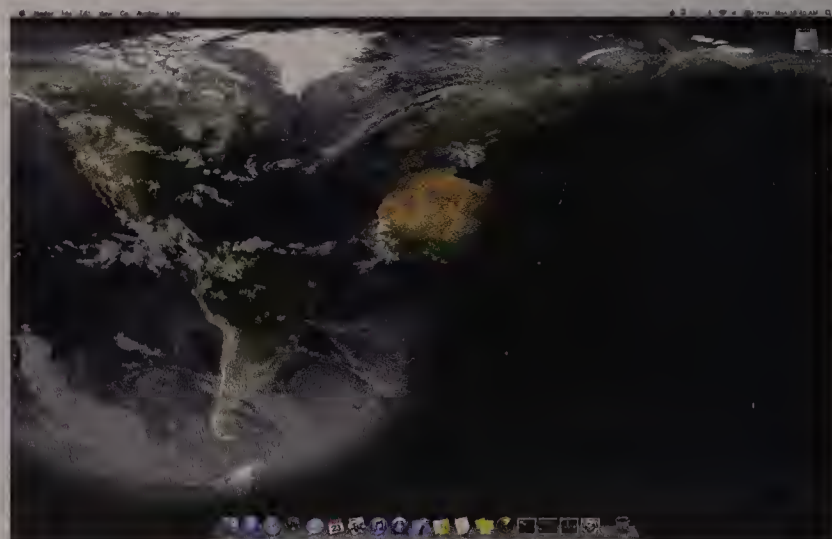
Is your active lifestyle clashing with your digital lifestyle?

LaCie's RuggedKey USB 3.0 flash drive can endure heat, cold, and 100-meter drops. Sold in 16GB (\$40) and 32GB (\$70) versions, it has AES 256-bit encryption, so no one can get your data if you drop the drive while skydiving ([laCie.com](http://laCie.com)).—ROMAN LOYOLA



## Vinoteka Mac 3.0

Oenophiles seeking to manage a collection may like VinotekaSoft's \$60 database. You can catalog your wine and use the Wall Builder to re-create your cellar or wine refrigerator, mapping the location of your best bottles ([vinotekasoft.com](http://vinotekasoft.com)).—ROMAN LOYOLA



## EarthDesk 6

Why settle for standard-issue desktop images when you can have a map of the Earth that's updated in real time? Xeric Design's \$25 program includes four different maps of the world that display the location of clouds, the positions of the sun and moon, and the location of the International Space Station. Version 6 uses less memory than its predecessors did, and supports the Retina MacBook Pro ([xericdesign.com](http://xericdesign.com)).—ROMAN LOYOLA



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# Mac Gems

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## EMAIL CLIENT

### Postbox 3.0.5

★★★★; \$10; Postbox; [macworld.com/7961](http://macworld.com/7961)

When the \$40 Postbox 2 (★★★★½; [macworld.com/a/1156430](http://macworld.com/a/1156430)) debuted, I thought it blew the doors off Apple Mail and Microsoft Exchange. Since then, Apple Mail has closed much of the feature gap. In response, Postbox 3 (just \$10) focuses on integration with other popular apps.

Postbox 3's biggest draw is its close cooperation with Gmail and Evernote. Over IMAP or POP, the program recognizes Gmail labels and sorts your mail. It can shuffle messages into your Gmail archive and move dates detected in messages into your Google calendar(s).

If you have the Evernote OS X app and an account, you can convert any Postbox message into an Evernote note. The tags, subject, and text of my test notes were all correctly reflected in my Evernote account.

Postbox already supported Facebook and Twitter; version 3 adds LinkedIn and Dropbox. You can easily send links to large files stored in your Dropbox account, rather than attaching them.

Postbox does threaded conversations better than Apple Mail, thanks in part to its ability to expand or collapse individual messages. It supports Lion and Mountain Lion features such as full-screen mode, trackpad gestures, and, as of version 3.0.5, Notification Center and Gatekeeper.



Unfortunately, in my tests, the program tended to slow to a crawl when chewing on big tasks. But Postbox 3 is still a superb upgrade for those who want more out of their email client.—NATHAN ALDERMAN

## PRODUCTIVITY APP

### CheatSheet 1.0.3

★★★★½; free; Stefan Fürst; [macworld.com/7962](http://macworld.com/7962)

Keyboard shortcuts—such as ⌘-C for Copy—have long been an easy way to access common actions. But how do you learn those shortcuts? I'm a longtime fan of Ergonis's KeyCue (€20; [www.ergonis.com](http://www.ergonis.com)), a utility that quickly shows all the shortcuts for the current app. But if you're willing to give up some of KeyCue's niceties, the free CheatSheet offers an alternative.

With CheatSheet installed, holding the ⌘ key for a few seconds pops up an overlay summarizing the shortcuts for the current application, including those you've added using the Keyboard pane of System Preferences. You press a shortcut or click it to execute the corresponding command.



CheatSheet's only options allow you to choose how long you need to hold ⌘, and to print the current list of shortcuts—KeyCue lacks the latter feature.

On the other hand, if you use shortcuts

frequently, KeyCue has more to offer than CheatSheet does. For example, KeyCue also shows systemwide shortcuts. If you press a modifier key, such as Shift, Option, or Control, while viewing the overlay, KeyCue highlights shortcuts that include that key. Finally, some apps—such as Adobe programs—have shortcuts that neither CheatSheet nor KeyCue displays; but KeyCue lets you add such shortcuts to an app's listing, and you can download and import sets of nonstandard shortcuts.

For anyone who doesn't need KeyCue's many extras, however, it's great to have a simpler, lower-cost option, and CheatSheet is all that many people will require.



# Justnotes 1.1.2

★★★★; \$10; Matthias Hochgatterer; macworld.com/7963

OS X's Stickies app for quick notes goes beyond simple text, but it still feels dated these days. If you want something more modern, Justnotes may be the solution.

The window has a notes list on the left, with the content of the selected note on the right. You can sort the list alphabetically or by creation or modification date. The app stores notes as plain text, so formatting options are fairly limited—font and size, alignment, and other basic tweaks—and your choices apply to all of your notes.

What makes Justnotes so useful is that it syncs notes across devices, offering two options. The first is to sync your database using the free Simplenote service from Simperium. (A premium Simplenote account, which costs \$2 per month or \$20 a year, offers extra features.) In addition to syncing notes among Macs, Simplenote lets you access notes via the Web, the Simplenote iOS app, and supported third-party apps.

Alternatively, on OS X 10.7.3 or later, you can store plain-text notes in a folder on your hard drive. If you use Dropbox,

you can have notes synced across all your Dropbox-enabled devices. With folder syncing on, Justnotes includes in your notes list any .txt files in your synced folder, although you can configure other plain-text file extensions (such as .md and .markdown) that you want the program to recognize.

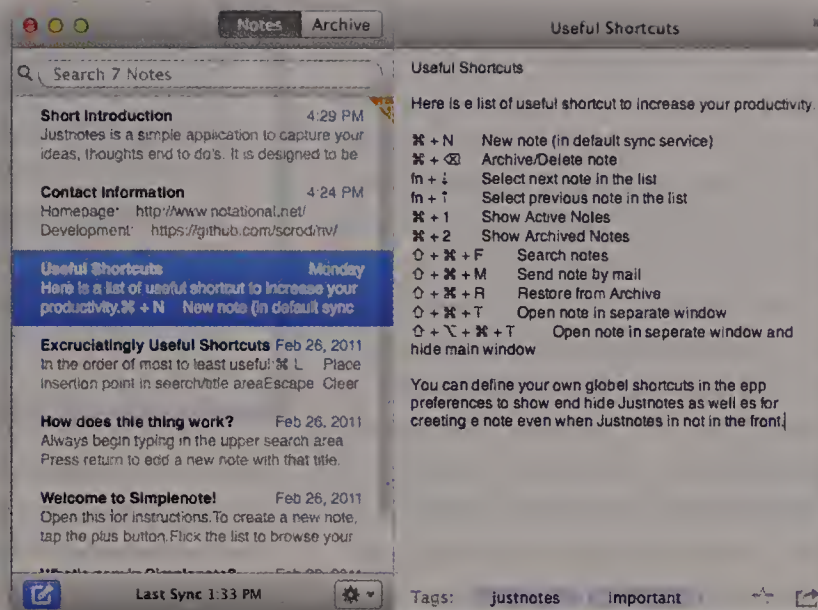
My favorite feature: You can sync with both Simplenote and a local folder, and you can even configure multiple Simplenote accounts and multiple local folders, letting you store, say, work notes in one Simplenote account, shared family notes in another, and personal notes in Dropbox.

Justnotes can import plain-text and Evernote notes. It can export your notes as plain-text files, although the app crashed

when I tried to use the export option.

I'm not a fan of the cryptic names it gives to new notes created in (or moved to) a synced folder. I'd also like a Duplicate command. Nevertheless, its interface is simple but effective, and the sync options make it especially appealing to users with iOS devices and multiple Macs.

Justnotes works with any version of Lion, but the developer says that syncing to a local folder requires OS X 10.7.3.



## Promising Prospect: EdgeCase 1.2

\$8; Peter Kamb; macworld.com/7964

Fitts's Law is one of the foundations of a good software interface. To oversimplify, Fitts's Law says that the larger an on-screen object is, and the closer that object is to the pointer, the less time it takes to access the object. Fitts's Law especially applies to the edges of the computer screen: The edge eliminates an entire dimension of precision.

Unfortunately, multiple-display setups conflict with Fitts's Law. When you add a second display, you remove the boundary along the screens' shared edge. If you have stuff—application palettes, for example—at that edge, accessing those items requires more-precise pointer movement, because the screen edge no longer keeps you from overshooting.

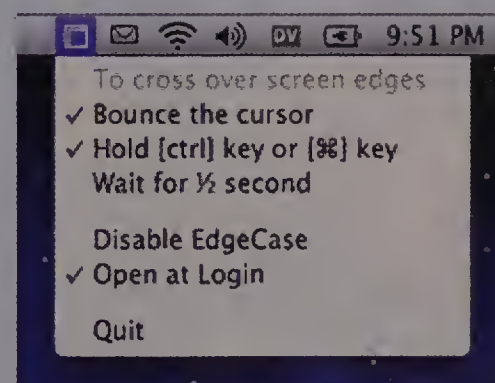
EdgeCase restores that lost boundary. With the app running, whenever the pointer hits the shared edge, it stops dead. This works regardless of which direction the pointer is coming from.

If you want to move to the other display, you have three options, which you can enable or disable separately. The first

is to bounce the pointer against the edge. The second is to hold down the Control or ⌘ key while moving the pointer. The third is to move the pointer against the shared edge and then hold it for half a second before proceeding to the other display. You can reverse the modifier-key setting, which I prefer—I want the pointer to be able to move freely between displays more often than I want it to stop at the shared edge.

EdgeCase works well, although the bounce and delay options take practice. A feature I'd like to see is an option to enable virtual borders along the edges of windows.

I'm looking forward to watching EdgeCase's development, as I've found it to be useful on my multiple-display setup.





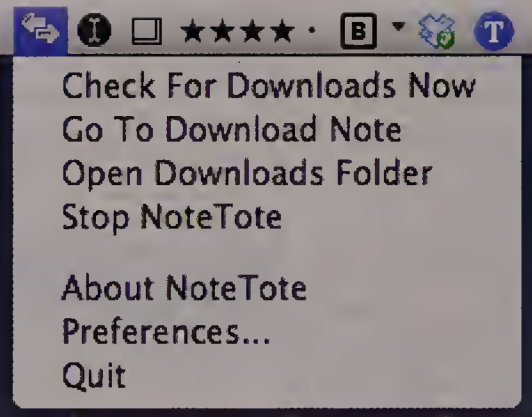
## DOWNLOAD UTILITY

# NoteTote 1.0.1

★★★★; \$5; Scott Jackson; [macworld.com/7965](http://macworld.com/7965)

Many of us are doing more and more of our Internet consumption on mobile devices, since it's often more convenient than using a desktop computer. But what do you do when you find something you want to download? With a few exceptions, iOS devices can't download files. And if you have a laptop, sometimes you don't want to download a lot of data onto its small drive, or you'd prefer to use your desktop Mac's fast network connection.

I've been using the clever NoteTote to download files to my desktop Mac no matter where I am when I come across the link. NoteTote requires a free or paid account with the Simplenote syncing service. It creates a new Simplenote note called NoteTote\_Downloads, and it makes a NoteTote folder, located by default in



your home folder's Downloads folder.

When the tool is running, it periodically checks the NoteTote\_Downloads file for new URLs. (The default interval is 10 minutes.) Whenever it finds a new URL that points to a publicly accessible file, it downloads that file to its downloads folder and removes the URL from the note.

Adding new URLs to the NoteTote\_Downloads file is simple: You can use the Simplenote website on any platform, a Mac app such as Justnotes (see the previous page) or Notational Velocity, or the Simplenote iOS app. You also can use NoteTote in combination with other Mac tools to automate download processing. For example, if you change the location of NoteTote's download folder to a folder inside Dropbox, your downloads sync to all your Dropbox-equipped computers.

NoteTote works well, and as someone who downloads stuff on a daily basis, I can say it's a welcome tool that makes downloading easier, no matter where I am.

(Although NoteTote is sold only on the Mac App Store, the developer offers a limited-use trial on the NoteTote website.)

**EXTREME** clumsiness requires **EXTREME** protection.



EXTREME

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**ZAGG**.COM



# Change Hidden iTunes Preferences 3.1

💻💻💻; payment requested; Doug Adams; [macworld.com/7966](http://macworld.com/7966)

Like OS X itself, iTunes has hidden settings that affect how the program works and what options are available to you. Accessing those secret features—some of which revert to the behavior and appearance of older versions of iTunes—requires you to either hunt down special shell commands that you run in Terminal or use a third-party utility that presents the settings in an easy-to-use interface.

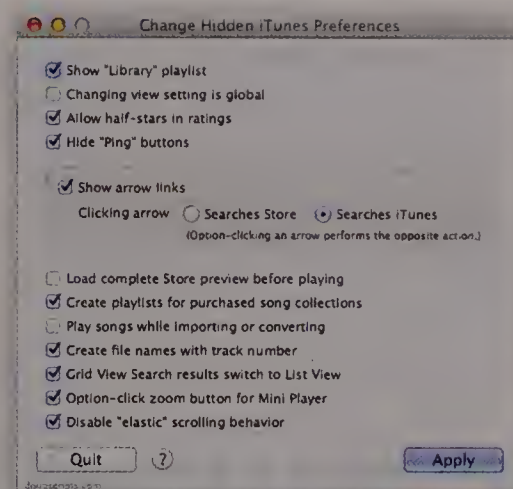
In 2009, I covered Change Hidden iTunes Preferences 1.0, a tool from Doug Adams, the master of iTunes AppleScripting (💻💻💻; [macworld.com/a/1139450](http://macworld.com/a/1139450)). The latest version includes several features not available then and removes some settings that don't work in the current iTunes.

Double-click the app—or put it in the iTunes Scripts folder and choose it from

iTunes' scripts menu—and you get a single window listing all of the options. You just quit iTunes, check the box next to each option you want to enable, click Apply, and then relaunch iTunes.

Among the settings is the ability to restore the main Library item, which includes everything in your iTunes library in a single view. (Apple removed the Library item in iTunes 8 in favor of separate items for each type of media.)

If you ever want to delete all traces of a setting from your iTunes preferences file, you can use the Delete Checked or Delete All command. The documentation explains that you might want to do this “if a future version of iTunes balks at these settings or you decide that messing with the iTunes preferences file is a bad thing.”

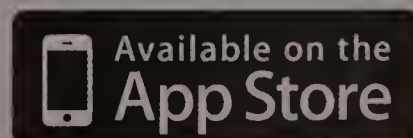


If you find this free utility useful, the creator asks for a donation to support future development. The current app requires iTunes 9.0 or later and OS X 10.6 or later (though older versions of the utility remain available for download).

“My favorite part of our field trip to the museum was...”

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# iOS Central

The Latest on the iPhone, iPod Touch, iPad, and App Store.

## Apple Unveils the iPhone 5

Bigger screen, new connectivity options in a skinny frame

BY DAN MILLER

**T**he iPhone 5 could be one of the least surprising products Apple has ever announced. From its name to its new features, much of what Apple announced about the new phone—which should be shipping by the time you read this—was expected.

For starters, there was the name. (Thankfully, Apple didn't follow the same vague naming conventions it used for the most recent iPad.)

More substantially, the new iPhone has—as widely rumored before the announcement—a taller screen, a brand-new dock-connector port, and support for the speedy LTE cellular networking standard.

### On the Outside

Perhaps the one surprising detail about the new iPhone is its exterior. Phil Schiller, Apple's senior vice president of worldwide marketing, calls the device "the most beautiful product we've ever made." It is indeed pretty, made entirely of glass and aluminum, with the exacting fit and finish that has become Apple's signature.

It's also skinny (measuring 7.6mm,

compared to the iPhone 4S's 9.3mm) and light (112 grams, down from 140).

But what's most striking is its screen: It's a Retina display that measures 4 inches diagonally, with a resolution of 1136 by 640 pixels; it's noticeably taller than the old iPhone's screen.

That extra screen area means that there's more room for app icons: A fifth row of them now fits on the home screen. Apple says it has updated all of the iPhone's native apps (Mail, Safari, and so on), along with the iWork and iLife suites, to take advantage of the larger display.

Apps that aren't updated won't stretch to fill the space. Rather, they will display letterboxed, with black borders surrounding the centered app.

### Connectivity

As widely expected, the iPhone 5 offers a couple of new options for connecting to the outside world. The first is its support for the LTE cellular data standard; the phone also adds HSPA+ and DC-HSDPA to its existing roster of GPRS, EDGE, EvDO, and HSPA.

While LTE is not yet widely available in the United States, its presence is growing; the iPhone 5 release will likely accelerate that trend. LTE partners for the iPhone 5 include AT&T, Sprint, and Verizon in the United States and Rogers, Fido, Bell, Telus, and more in Canada. The iPhone 5 also features improved Wi-Fi, with support for 802.11n dual band.

The second big change in the iPhone's connectivity comes in the form of a new





dock-connector port: Instead of the standard 30-pin port used since 2003, the iPhone 5 has a smaller port that Apple has dubbed Lightning. That connector is 80 percent smaller than the one it replaces. Apple will offer an adapter for connecting a 30-pin cable to the Lightning port (\$29; with 2-meter cable, \$39), as well as a Lightning to USB cable (\$19).

### Camera

The iPhone 5 gets an improved camera, too, with an 8-megapixel sensor and support for 3264-by-2448-pixel images. It's backside illuminated, with a hybrid IR filter, a five-element lens, and a fast f/2.4 aperture. And physically the camera is 25 percent smaller than the iPhone 4S's camera. It also includes a dynamic low-light mode, which can sense low light and combine elements for two f-stops greater. The camera also includes—for the first time on an iPhone—a sapphire lens cover.

## As widely expected, the iPhone 5 offers a couple of new options for connecting to the outside world. First is its support for the LTE cellular data standard.

Apple says the new A6 processor that powers the iPhone 5 includes an image signal processor for better photographs. Also, the Camera app gets a new Panorama feature, which lets you stitch together multiple shots into one wide one. You hold the iPhone vertically and sweep across your scene; the app tells you how fast to move.

Video performance is improved, too. The iPhone 5's camera offers 1080p HD video, better video stabilization, and face detection for up to ten faces, and it can take photos while you're recording video. The front-facing camera is now a FaceTime HD 720p HD camera with backside illumination, a significant improvement over the iPhone 4S's VGA-quality front-facing camera.

### iOS 6

Of course, the iPhone 5 runs iOS 6, the next version of Apple's mobile operating

system. Other iOS devices (the iPhone 3GS, the iPhone 4, the iPhone 4S, the fourth-generation iPod touch and later, and the second- and third-generation iPads) will also be able to run it.

While we'd already seen much of what is in iOS 6 (improvements to Maps, Safari, Notification Center, and more), Apple did introduce one new feature at the iPhone 5 event: The iTunes Store, App Store, and iBookstore now have a unified matte-black design, and, Apple promises, improved performance.

### On the Inside

The processor in the iPhone 5 is the brand-new A6, which the company says is twice as fast at CPU and graphics processing as the A5 that drove the iPhone 4S. It's also 22 percent smaller than its predecessor, freeing up more space inside

the iPhone, and making it more energy efficient to boot.

Apple says it set out to match the battery life of the 4S, but the iPhone 5 ended up exceeding that: The new phone will reportedly offer eight hours of 3G talk time and regular and LTE browsing, ten hours of Wi-Fi browsing, ten hours of video, 40 hours of music, and 225 hours of standby time.

Pricing for the iPhone 5 is the same as for the iPhone 4S: A 16GB model is \$199, the 32GB is \$299, and the 64GB is \$399.

The iPhone 4S price drops to \$99; and the iPhone 4 is now the free, entry-level iPhone with a subscription to a cellular data plan. All of those prices require a two-year commitment to a carrier's plan.

### One More Thing

The new iPhone wasn't the only action at the event.

Apple also unveiled some additions to its iPod lineup. The fifth-generation iPod touch has a spruced-up screen and a better camera, and is compatible with iOS 6. A 32GB model costs \$299, and a 64GB player is \$399.

Apple also introduced a new iPod nano. The seventh-generation model features a Multi-Touch display, supports video playback, and includes Bluetooth connectivity. The 16GB model costs \$149.

*Dan Miller is editor of Macworld.*





# Apple's Rejects

Early iPhone, iPad prototypes reveal what might have been

BY MARTYN WILLIAMS

**D**ocuments submitted to a California court as part of the patent battle between Apple and Samsung Electronics provide a fascinating look at the iPhone and iPad designs Apple considered before the devices went on sale.

Among the revelations are the following: A prototype of the iPhone developed in 2006 bears a strong resemblance to the iPhone 4 that went on sale in 2010, and some early designs for the iPad included a pull-out arm that acted as a stand.

## The Proto-iPhone

One of the iPad prototypes, which carries the label "X9 #4," appears in images with a kickstand attached to the back of the unit. Another picture shows it sitting at an angle on a desk, presumably propped up with the stand. A second prototype, shown without the stand attached, has a hole and a recessed channel carved in the back that would presumably store the stand when it folds away.

While Apple decided against using the stand on the finished product, it's notable that a number of third-party case makers have built that feature into some of their

models. Speck, based in Palo Alto, California, offers the HandyShell, an iPad case with a fold-out stand that doubles as a grip for carrying the tablet ([macworld.com/7926](http://macworld.com/7926)). Other iPad prototypes include a model with a two-stage thickness, thinner around the edge than in the center.

Among the iPhone prototypes is an octagonal model, labeled "boeing v6," with angled corners and a two-tone design that has a black front and a curved white back. There's also a prototype that's longer and thinner than the iPhone that would go on sale in 2007. Most of the prototypes appear to date to 2006.

Other similar filings with the court revealed that Apple had tasked one of its designers with dreaming up "Sony-like" phone designs ([macworld.com/a/1167886](http://macworld.com/a/1167886)). The resulting designs had more-defined sides. Some were black with a silver band running around the edge, making them look much more like the iPhone 4 than like the first iPhone that Apple offered.



**Early iPhone** A circa-2006 prototype Apple iPhone appeared in a filing to a California court.

## Variations on a Theme

The court submissions also show some early designs for the iPhone's home screen. In one photo, an early set of icons are arranged on screen without any text labels underneath—something that was present in later prototypes.

While some icons, such as those for weather, stocks, the calculator, and Safari, appear to have remained almost unchanged, others have been through redesigns. In an early version, the iPod button was an orange box with a music note; Apple later changed this to an iPod icon. And the Photos icon showed a young boy on a beach, not the sunflower familiar to millions of iPhone users.

The patent case is 11-01846, *Apple v. Samsung Electronics*, in the U.S. District Court for the Northern District of California.



**Prototype Designs** Apple sketches of prototype iPhone designs were also shown in the court filing.





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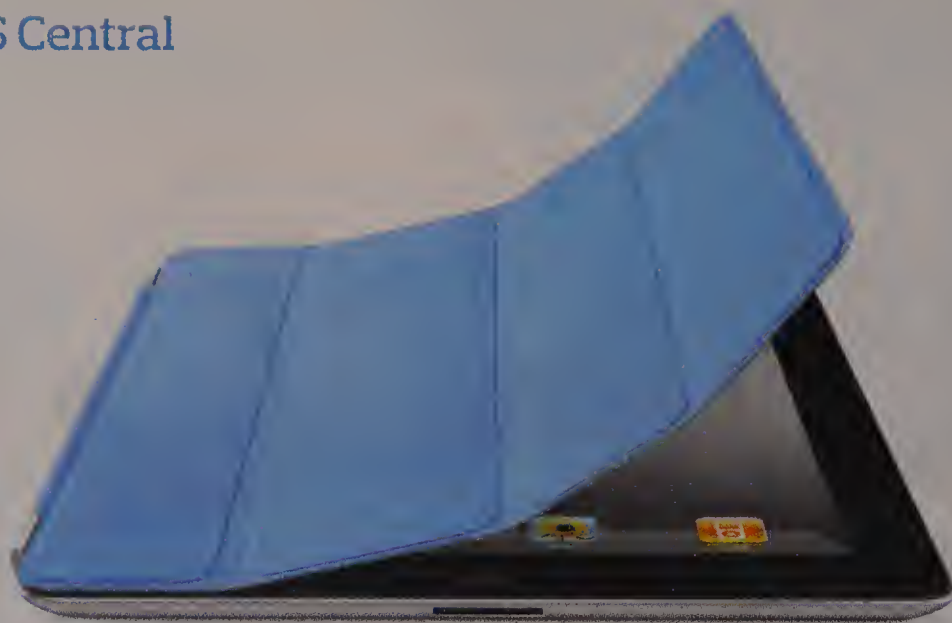


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# Counting iPad, Apple Tops PC Shipments

BY ASHLEIGH ALLSOPP

**T**he iPad has boosted Apple back to the top of the market, lifting it to an estimated 19.4 percent share of worldwide PC shipments, according to a Canalys report ([macworld.com/7927](http://macworld.com/7927)). Apple's iPad had "the biggest single impact on growth rates" in Q2 2012, helping overall global PC shipments rise 11.7 percent over Q2 2011.

Tablets have seen a hugely successful quarter, with total shipments increasing 75 percent to 24 million units during Q2. Tablets now represent 22 percent of all PC shipments. This gain "more than compensated" for disappointing ultrabook sales, said Canalys. Research analyst Tom Evans noted: "The PC industry is performing well and 2012 is shaping up to be a record year. Vendors with innovative products will reap the rewards."

In Q2 last year, Apple was in second place, with 13.6 percent of worldwide PC

shipments, behind HP at 15.7 percent. This year, Apple is the winner by far with an estimated year-on-year growth of 59.6 percent. Apple now has an impressive 19.4 percent share of the market, and shipments of over 21 million units. HP is about 8 million units behind Apple, with a 12.5 percent share, and Lenovo is creeping closer to second place, with 12.1 percent.

"[The] large base of replacement buyers ... simply must have the latest Apple product, and the decision to continue shipping the iPad 2 at lower price points has opened up new customers," said Evans. The leading Android tablet vendor in Q2 is Samsung. The company, currently recuperating from a first-round defeat in its patent battle with Apple, doubled shipments of its Galaxy Tab year-on-year. The third-largest tablet vendor, Asus, has seen success in the United States with its low-cost Transformer tablet.

## Worldwide PC Shipments

Market share Q2 2012 vs. Q2 2011

COMPANY	SHIPMENTS Q2 2012	MARKET SHARE Q2 2012 (%)	SHIPMENTS Q2 2011	MARKET SHARE Q2 2011 (%)	GROWTH Q2 2012 VS. Q2 2011 (%)
Apple	21,061,430	19.4	13,193,640	13.6	59.6
Hewlett-Packard	13,554,340	12.5	15,280,400	15.7	-11.3
Lenovo	13,154,570	12.1	10,354,590	10.6	27.0
Acer	10,688,190	9.8	10,243,790	10.5	4.3
Dell	9,652,310	8.9	10,827,750	11.1	-10.9
Other	40,596,940	37.3	37,433,030	38.5	8.5
TOTAL	108,708,780	100	97,333,200	100	11.7

Source: Canalys

## What's New at the App Store



### Things Learns to Sync

Developer Cultured Code has updated Things, its popular task-management app. The most notable new feature is a new syncing service called Things Cloud ([macworld.com/a/1168091](http://macworld.com/a/1168091)). While other to-do apps use Dropbox or iCloud to sync tasks, Things hasn't had a convenient way to do so until now (iPhone version, \$10; iPad version, \$20).

—DAN FRAKES



### Google Search App Gets Vocal

Google is bringing its Voice Search technology to iOS devices, making the Google Search app ([macworld.com/a/1168078](http://macworld.com/a/1168078)) more of a rival to Apple's Siri. While the app already accepted voice input for entering search terms, Voice Search goes beyond that, intelligently interpreting your request depending on location and context; it can also recite search results.—DAN MILLER



### Projectbook Molds Notes, To-dos

Theory.io's new \$2 app Projectbook ([macworld.com/a/1167989](http://macworld.com/a/1167989)) combines a virtual notebook with a to-do manager for tablet users. The app can store user-generated notes and sketches, along with Word documents, PDFs, and photos; it can also produce to-do lists while linking notes and documents so they can be easily found.—PHILIP MICHAELS



### CaptureNotes Adds Sharing Features

G8R Software's \$1 CaptureNotes note-taking app for the iPad offers great voice recording, and version 2.0 adds new sharing capabilities, letting you export notes and audio segments to Evernote, iTunes, and Dropbox (📎📎📎; [macworld.com/79333](http://macworld.com/79333)).—JOEL MATHIS



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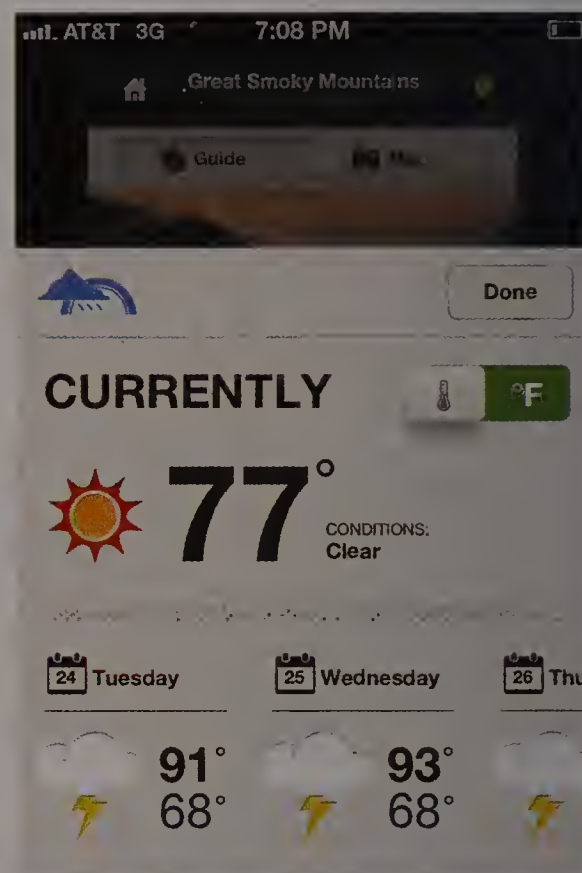
# App Guide

Software for Your iPhone, iPod Touch, and iPad

## National Parks by National Geographic

**TRAVEL** How you feel about National Parks will largely hinge on whether you run the app on your iPhone or iPod touch or on your iPad, and whether you download the add-on park guides. On a smaller device, it's a competently organized but not breath-taking set of facts and figures for 20 national parks, describing weather, location, directions, sites, and facilities. On an iPad, however, the view is outstanding. National Geographic uses the larger screen to full effect, so there's less tapping around to do. The How To Visit and About The Park sections appear on each park's main page, and helpful pop-up windows lead you to park info, directions, and camping data. The Map tab could still use more-helpful labeling on the iPad. Each park section gives you the option of downloading a full guide. You get one download for free; others are available for \$1 or \$2. The Photo Tips section is a highlight, with an impressive selection of park photos and tips on re-creating the images using your own camera. Though National Parks is a worthwhile trip-planning tool, its scope is limited to fewer than half of the 58 national parks. I'd like to see other destinations such as Lassen Volcanic and Carter Lake given the same treatment.—PHILIP MICHAELS



iPhone/iPad | ; free; National Geographic Society







## ESSENTIAL APPS



### Task Masters

When we need to stay on task, these are the iPhone to-do managers we turn to ([macworld.com/7928](http://macworld.com/7928)).

 **Todo**  Doesn't require a Ph.D. in the Getting Things Done system ([macworld.com/7929](http://macworld.com/7929)).

 **Toodledo**  Combines customization and intuitiveness to earn a prime spot on our iPhones ([macworld.com/7930](http://macworld.com/7930)).

 **Checkmark**  Offers a superior implementation of location-based reminders ([macworld.com/7931](http://macworld.com/7931)).


 **Task Eater**  Colorful take on task management ([macworld.com/7932](http://macworld.com/7932)).



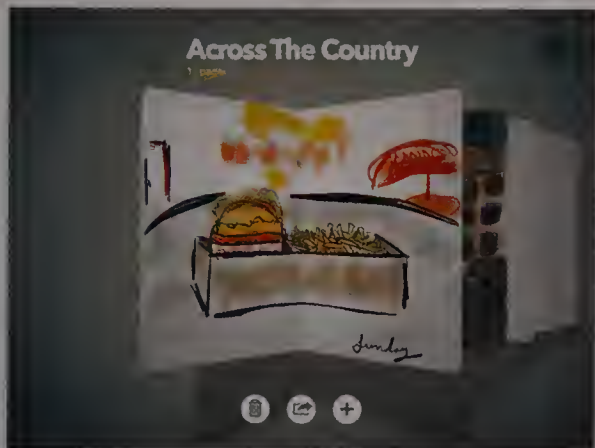
## Disc Drivin'

**GAMES** Asynchronous turn-based games have been a popular addition to the App Store. But Disc Drivin' may prove that even the most popular format has its limitations. Both the iPhone game and its iPad counterpart, the \$3 Disc Drivin' HD, put you in control of a disc as you race around a track. But that "race" is hardly pulse-pounding: The turn-based play means you push the disc along with your finger, and then wait patiently for your opponent(s) to do likewise before you can move again. Disc Drivin' looks to add some action

with power-ups and obstacles. Unlike word games, drawing contests, or even Battleship knockoffs, however, racing games don't really lend themselves to a turn-based approach. You can try a free, ad-supported version to see if you can live with its slow pace. Me, I prefer to live life in the fast lane.—PHILIP MICHAELS

iPhone/iPad | ; \$2; Pixelocity Software





## Paper by FiftyThree

**CREATIVITY** Paper, from design studio FiftyThree, may be one of my favorite drawing apps ever to grace the iPad. The company has found some magical way to turn charcoal, watercolors, markers, and inkwell pens into lines of code that make beautiful artwork on the iPad. Paper has the best digital rendering of any pencil tool

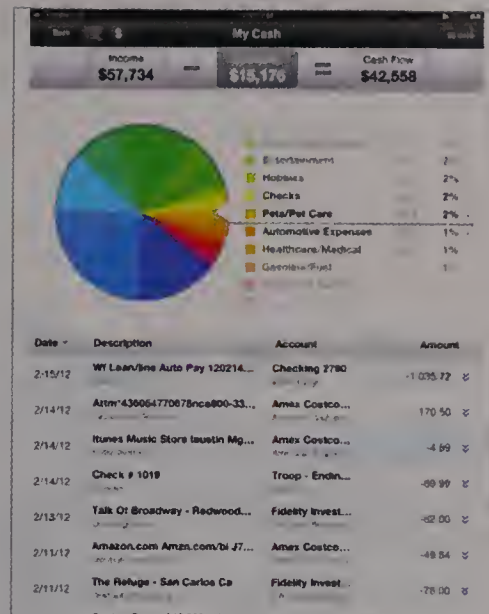
I've seen, and its bright, gorgeous watercolors have just the right texture on digital paper. The simply laid-out app lets you sketch in notebooks or flip from drawing to drawing. Sadly, Paper has a few major flaws: You can't zoom in on the canvas, and it has limited color swatches. Also, the watercolors don't always work well with Paper's "pressure" rendering engine. FiftyThree has hinted at updates to fix some of these issues; in the meantime, Paper is still well worth downloading.—SERENITY CALDWELL

iPad | ; free; FiftyThree

## Solar

**WEATHER** Whether Solar tops what you already get for free from Apple's built-in Weather app depends on how much you value aesthetics. The stripped-down interface is awfully pretty, relying on what Hollr calls "Rothko-esque colors" to describe current conditions: bluish hues for cooler temps, orange and red tones for heat. Solar takes advantage of your phone's location-awareness features to display the local temperature, and it can store up to 20 cities. Eye-catching though Solar is, I prefer Weather's five-day outlook. But the location-based component is handy, and Solar takes a colorful approach to describing the weather.—PHILIP MICHAELS

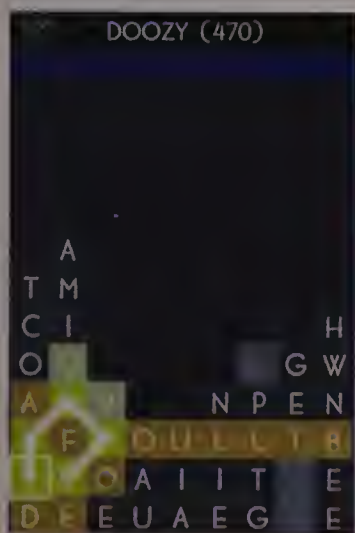
iPhone | ; \$1; Hollr



## Personal Capital Banking and Investing

**FINANCE** The Personal Capital Web app is a great tool for tracking your financial assets on any computer, but you can't use it with iOS devices. For that there's the free Personal Capital iOS app, which can track and manage personal financial info while you're on the go. It also offers a feature that isn't available on the website: Universal Checkbook lets you take a picture of a check from an account you track in Personal Capital, and transfer money between accounts or send payments from your iOS device. You can also connect with your financial advisor using FaceTime on your device. These iOS apps extend the capabilities of an already excellent financial management tool.—JEFFERY BATTERSBY

iPhone/iPad | ; free; Personal Capital



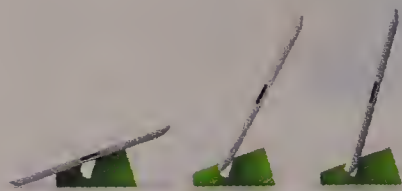
## SpellTower

**GAMES** The simple design of this iOS word game hides some pretty diabolical challenges. Though the app's controls can be a little too challenging to use—particularly on an iPhone's tiny screen—it's a great game for people who love wordplay. SpellTower scatters a bunch of lettered tiles across a grid, and it's up to you to formulate words from those tiles. You can form words vertically, horizontally, diagonally, backward, or forward. You're not committed to any one direction: If you want to zigzag across the board and reverse course, SpellTower lets you do so. The words you form must be at least three letters long (although numbered tiles require longer words). Once you've tapped out a word, those tiles disappear from the board. The game throws in a few obstacles and bonuses, and offers multiple game modes that keep things lively. The multiplayer feature is a lot of fun. SpellTower is an entertaining way to flex your vocabulary, and one of the better word games on the App Store.—PHILIP MICHAELS

iPhone/iPad | ; \$2; Zach Gage

# Reviews

Accessories and Add-ons for Your iOS Devices



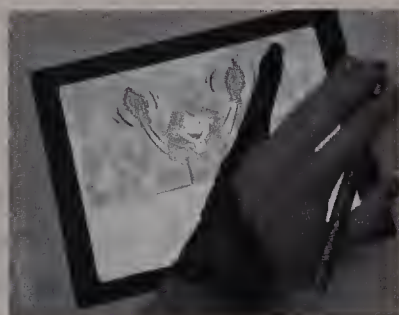
## Hardware

### Gogo Stump Portable Tablet Stand

★★★★; \$25; Gogo; [www.stumpstore.com](http://www.stumpstore.com)

The Stump Portable Tablet Stand is one of our favorite mobile-device accessories. This cylindrical, hard-rubber stand has a deep slit across the top that can hold your iPad, iPhone, or tablet in portrait or landscape position. It offers three viewing angles and is weighted for stability. It's available in black, red, green, yellow, and pink. The Stump Stand combines utility with simplicity at a reasonable price.

touch radiuses this small. If you write with a heavy hand, you should do fine with the Hand Stylus. But if you prefer using lighter pen strokes, look elsewhere.



### Hand Glider One Finger Tablet Glove

★★★★; \$20; The Hand Glider; [www.thehandglider.com](http://www.thehandglider.com)

The Hand Glider is a lightweight sleeve for your wrist

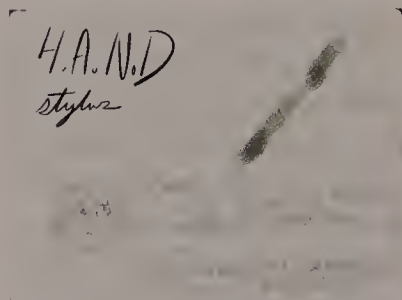
and pinkie that prevents your skin from triggering multitouch gestures or creating wayward marks while you're using a stylus. It may look a little silly at first, but its functionality far outweighs its design quirks. You can focus on minuscule details you might otherwise have to zoom in on, and you can draw with a steady hand and a relaxed grip. If you love to draw on your iPad, the Hand Glider is the right tool to use.

### Krusell Luna Mobile Undercover

★★★★; \$27; Krusell; [www.krusell.se](http://www.krusell.se)

With a lightweight polycarbonate shell, faux-leather backing,

and stitch detail, the Luna Mobile Undercover is more fashion-forward than protective. The Luna is easy to put on and comes in dark brown, black, red, and other colors. It fits the iPhone 4 only (not the 4S). Although the shell is very minimal, it does protect the phone's back and corners while leaving the top and bottom edges accessible. But the raised plastic logo on the back seems like a blemish.









### Hand Stylus

★★★★; \$30; Hand; [handstylus.com](http://handstylus.com)

The Hand Stylus is the most precise stylus we've used, going toe to toe with Adonit's Jot line. You can legibly write text at around 12 pixels high and pinpoint a line to trace. The Hand Stylus has a great retractable nib and a handy magnetic clip. Despite its precision, it suffers from a major flaw: Apple's iPad has a lot of trouble recognizing

## iOS Devices: Current Lineup

PRODUCT	SPECS	RATING	PRICE <sup>1</sup>	DISPLAY	PERFORMANCE	FIND CODE <sup>2</sup>
<b>iPad<sup>3</sup></b> 	16GB	Wi-Fi, ★★★★★; 4G, ★★★★★	Wi-Fi, \$499; 4G, \$629	9.7-inch color (Retina)	10 hours on Wi-Fi; 9 hours on 4G	<b>7696</b> Wi-Fi <b>7699</b> 4G
	32GB	Wi-Fi, ★★★★★; 4G, ★★★★★	Wi-Fi, \$599; 4G, \$729	9.7-inch color (Retina)	10 hours on Wi-Fi; 9 hours on 4G	<b>7697</b> Wi-Fi <b>7700</b> 4G
	64GB	Wi-Fi, ★★★★★; 4G, ★★★★★	Wi-Fi, \$699; 4G, \$829	9.7-inch color (Retina)	10 hours on Wi-Fi; 9 hours on 4G	<b>7698</b> Wi-Fi <b>7701</b> 4G
	16GB (iPad 2)	Wi-Fi, ★★★★★; 3G, ★★★★★	Wi-Fi, \$399; 3G, \$529	9.7-inch color	10 hours on Wi-Fi; 9 hours on 3G	<b>7030</b> Wi-Fi <b>7031</b> 4G
<b>iPhone 4, 4S, and 5</b>   	8GB 4 <sup>4</sup>	★★★★	free	3.5-inch color (Retina)	10 hours of Wi-Fi Internet; 7 hours of 3G talk time	<b>7516</b> GSM <b>7520</b> CDMA
	16GB 4S <sup>5</sup>	★★★★	\$99	3.5-inch color (Retina)	9 hours of Wi-Fi Internet; 8 hours of 3G talk time	<b>7517</b>
	16GB 5 <sup>5</sup>	n/a	\$199	4-inch color (Retina)	n/a	<b>7970</b>
	32GB 5 <sup>5</sup>	n/a	\$299	4-inch color (Retina)	n/a	<b>7971</b>
<b>iPod Touch 4th Generation</b> 	16GB	★★★★	\$199	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	<b>6553</b>
	32GB	★★★★	\$249	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	<b>6554</b>
<b>iPod Touch 5th Generation</b> 	32GB	n/a	\$299	4-inch color (Retina)	40 hours of music playback; 8 hours of video playback	<b>7967</b>
	64GB	n/a	\$399	4-inch color (Retina)	40 hours of music playback; 8 hours of video playback	<b>7968</b>

n/a = not available. <sup>1</sup>All prices are Apple's prices. <sup>2</sup>In a browser's address field, typing in a find code after [mactworld.com/](http://mactworld.com/) takes you to a product's review or overview. <sup>3</sup>There are separate Wi-Fi + 4G iPad models for AT&T's network and for Verizon's. <sup>4</sup>This phone is available only with an AT&T plan. <sup>5</sup>These models are available with an AT&T, Sprint, or Verizon plan.



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# Our 20 Favorite APPS



They're the ones we  
use every day—and  
recommend to everyone.

PHOTOGRAPHY BY PETER BELANGER

We see a lot of iPad and iPhone apps here. Some of them we try for a bit, check out what they have to offer, and then discard. Other apps hang around a little longer; those are the ones we actually decide to review. Then there are the apps that really stick, the apps we use day in and day out, year after year. Those aren't necessarily the apps that earn the highest ratings, however. Sometimes, it takes a while for an app to grow on you.

So we did a little poll of the *Macworld* staff to find out which apps they use the most. Based on that poll, we came up with the following list of 20 terrific apps (most of them optimized for the iPad, with one that's definitely best on the iPhone alone). You've no doubt heard of all of these apps before. But do you have them installed? Are you using them? If not, we'll tell you what we'd tell our family and friends: These are the apps we really use, the ones we think everyone should have.

## BOOKS

## KINDLE

The iPad has changed the way we read. I spend as much (if not more) time reading news, long-form journalism, and books on the tablet as I do on paper. (For more on that topic, see Instapaper and Reeder on the following pages.) But the free Kindle iPad app (📖📖📖; [macworld.com/7935](http://macworld.com/7935)) has changed not only my reading habits but also my buying habits.

Once upon a time, I bought books (the paper kind) with abandon. I even read most of them. But all of them eventually ended up on a shelf or in a box. Those piles began to wear on me. So some years

back, I curtailed my book buying severely, promising myself to buy only those volumes that I would use in an ongoing way—not just read once. For the latter, I borrow or I buy used (and sell when I'm done). The books I do buy tend to be how-to and reference materials—covering everything from training for a 10K to being a better father—plus a smattering of other things I find so wise or so pithy that I go back to them over and over.

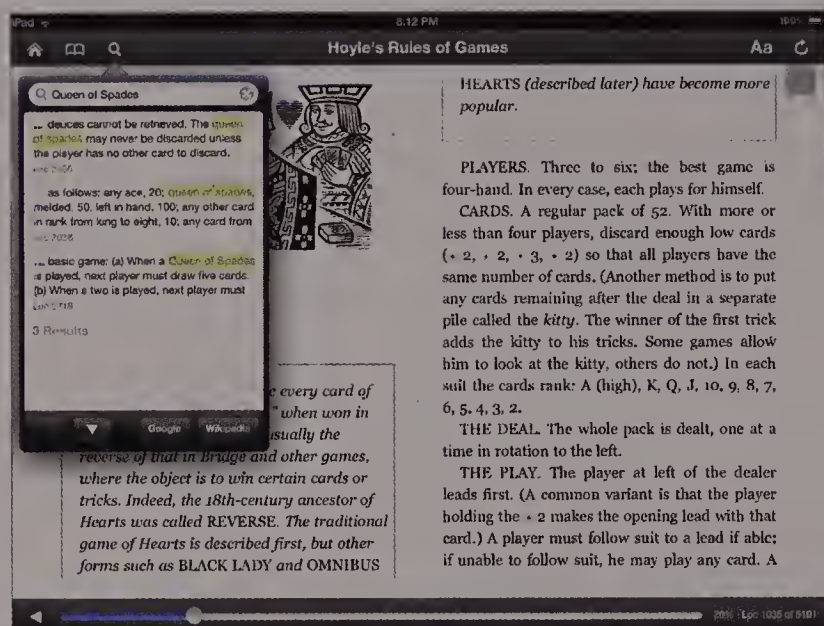
Kindle happens to be perfect for these sorts of titles. Because its texts are searchable, I can find the information I need quickly.

**Searchable Text, Quick**

**Reference** In the Kindle iPad app, you can easily unearth the information you need.

Because it's so portable, I can reach that information whenever and wherever I want. (That's not to say the app is perfect: The labels on its bookmarks are marvels of obscurity; I use notes instead. Search results are equally hard to parse.) And, sure, I could use iBooks just as well, but Apple can't yet match Amazon's selection. (Yes, I could export Amazon books to ePub format and then import them to iBooks. But Apple's app isn't any better than Amazon's, so why?)

I know plenty of people who have abandoned paper and do all of their book reading on Kindle (in one form or another). I'm not there yet. But like any really good app, Kindle can do as much as you need it to. And for me, it does that very nicely.—**DAN MILLER**



## ENTERTAINMENT

## IMDb

The Internet Movie Database is older than the Web itself. It began as the Usenet group rec.arts.movies, where zealous film buffs compiled a searchable list of movie credits. From there it evolved into the massive website ([www.imdb.com](http://www.imdb.com)) it is today, containing listings for more than 2 million movies and television shows and more than 4 million actors, directors, and crew members. After all those mutations, the database may have found its perfect form in the free IMDb iPad app (📖📖📖; [macworld.com/7936](http://macworld.com/7936)).

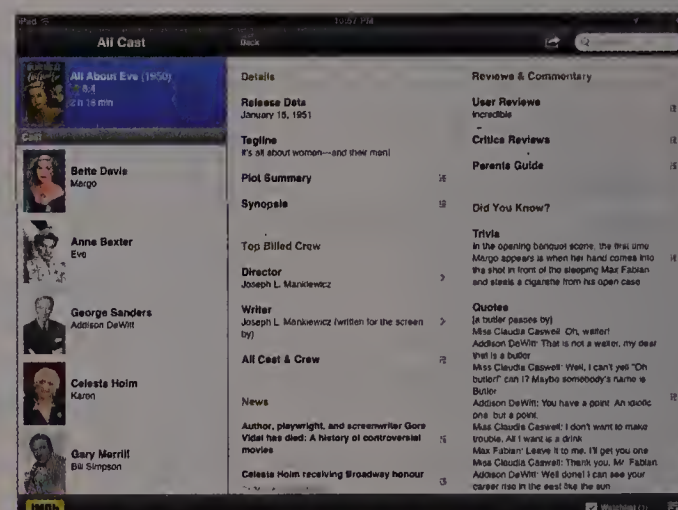
That's largely because the app makes all that information

especially accessible where I most need it—on the couch, when I'm watching whatever it is I want to know more about. I use the app regularly to look up movies, to grab details about a film's cast and crew or release date, and, while I'm at it, to read great quotes from the movie and a description of its assorted production goofs. Each listing also includes an album of images (stills and posters, principally), and of course each actor has a page.

IMDb is way more than just a convenient couch-side reference work, though. The iPad app also includes local

**In-Depth**

**Movie Info** The IMDb app offers complete details for film classics and new releases alike.



showtimes and trailers for current, still-in-the-theaters movies, as well as film news and a Coming Soon section.

The app sounds busy, and it is. But it's also well done.

Although you can find other movie and television apps with comparable focus, none of them offer the comprehensive depth and detail of IMDb.

—**JACKIE DOVE**

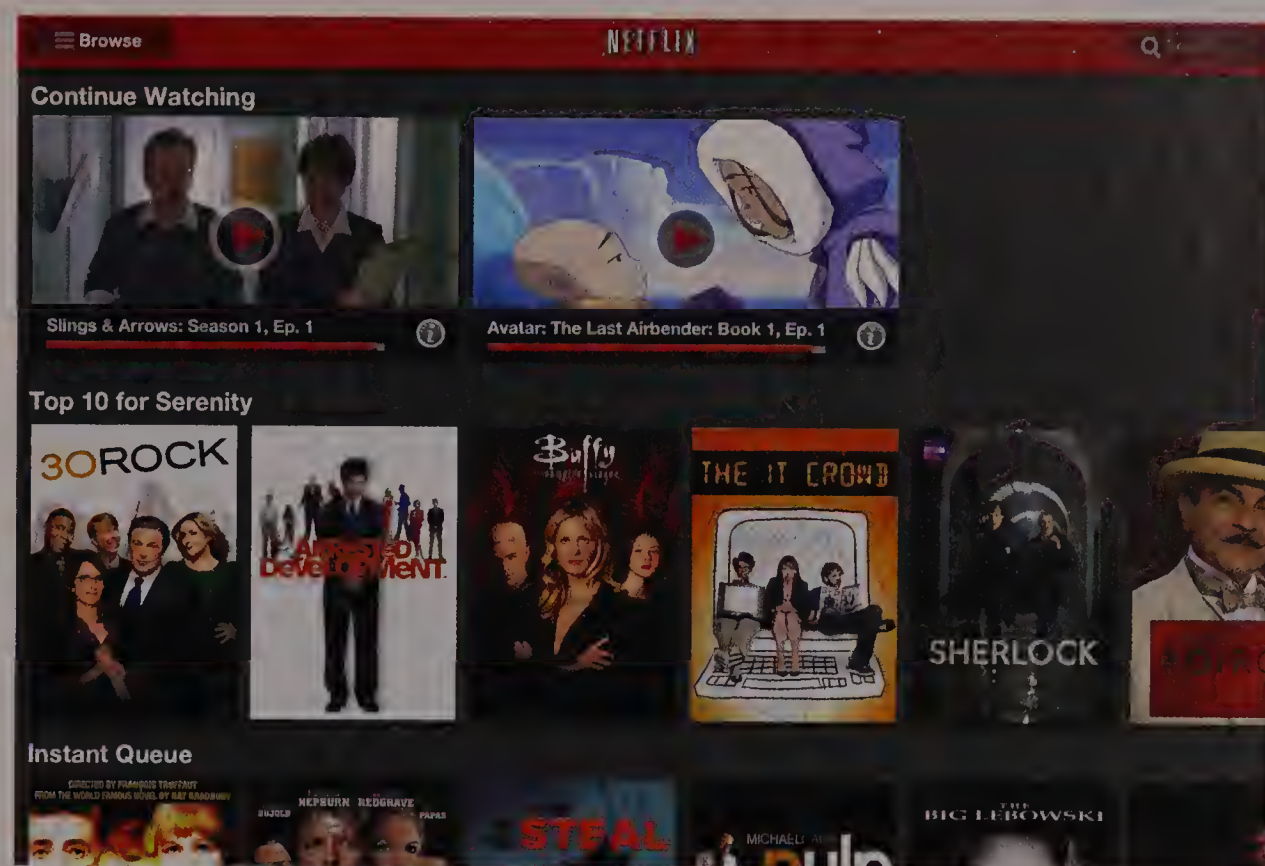


# ENTERTAINMENT

## NETFLIX

I purchased my first iPad for two reasons: to sketch on it, and to watch seasons of *Doctor Who* while I folded boxes of T-shirts. The latter activity was made possible by the free Netflix app (📱📱📱; [macworld.com/7937](http://macworld.com/7937)), which allows you to view any item in the company's Watch Instantly catalog on your iPad (or, if you must, your iPhone).

Although the app isn't quite as full-featured as the Netflix website ([www.netflix.com](http://www.netflix.com)), it still offers more than enough to keep you satisfied. You can search the catalog by title or genre, rate films and television shows you've seen, add a movie to your Instant Queue, and, of course, watch TV series and movies until your eyes cross. The app works over Wi-Fi or 3G (if the latter connection is decent),



so you can stream everything to almost anywhere; and if you want to watch Netflix on the big screen, you can use AirPlay Mirroring.

More than any other app I know of, Netflix fulfills the

iPad's promise as a mobile entertainment device. I can't say that it has enabled me to ditch my TV entirely—but I have to admit that I do use my big screen a lot less.

—SERENITY CALDWELL

**Ready for Viewing** Through the Netflix app for iPad and iPhone, you can enjoy movies and TV episodes wherever you are.

# FINANCE

## Mint

My third-grade teacher ran a competition to help us learn about managing finances: We each received \$100 in "school bucks," along with our very own checkbook; we could earn more by doing homework or participating in activities. With those bucks, we could buy things such as a half-hour of reading time, an hour for art, or an extra bathroom break. But all that came at a price: We had to prove that our checkbooks were balanced before we could spend a dime.

Today, the notion of balancing a checkbook seems as archaic as an hour of art class in public school.

That doesn't stop Mint.com from trying to help users make sense of their finances. The free online service offers a breakdown of my spending and savings across any accounts I've linked with it. I can see exactly how much I've been spending on a monthly basis, set and adjust bud-



**Watch Your Wallet** Mint.com's easy-to-read charts help you track your spending.

gets, and track my money habits. Mint intelligently categorizes most transactions, though I can manually rename and categorize line items, as well as enter cash transactions that may not be represented online.

The free Mint.com app (📱📱📱; [macworld.com/7938](http://macworld.com/7938)) is the perfect companion to the site. Like so many other iOS essentials, it's handy because it's there when I need it most—such as when I'm about to purchase something and want to know whether I can afford that item. The app also makes managing finances a lot less painful; if you can do it from the comfort of your backyard hammock, you're much likelier to do it in the first place.—SERENITY CALDWELL

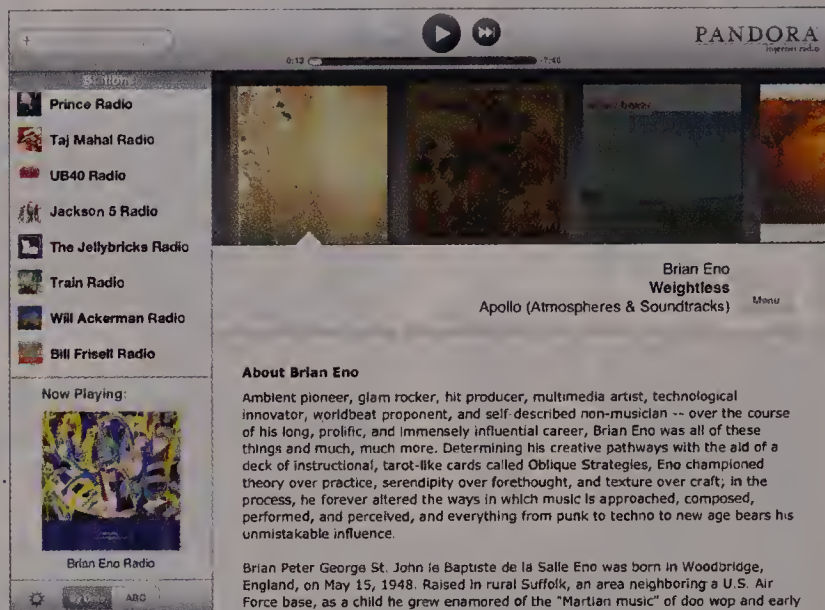


## MUSIC

PANDORA  
RADIO

Anyone who hasn't been in a decade-long sleep knows that Pandora ([www.pandora.com](http://www.pandora.com)) is one of the most popular—and one of the best—music streaming services. Sign up for a free account, enter any artist, song, or composer, and Pandora creates a “station” of music that it believes complements your choice. It's a brilliant idea, and the free Pandora iPad app ([apple.co/1z12](http://apple.co/1z12); [macworld.com/7940](http://macworld.com/7940)) is nearly as brilliant.

On the app's screen are all the basic Pandora controls I'm accustomed to—namely, Play, Skip, and Thumbs Up and Thumbs Down. With my stations listed on the left side, it's easy to select the station I want to listen to. I can just as quickly add new artists, songs, or composers to the



**Behind the Music** The attractive Pandora iPad app displays a detailed biographical profile for the currently playing artist.

list, merely by tapping in the appropriate field.

But wait, there's more: When I'm listening to a track, Pandora offers an extensive biography about the currently

playing artist. Better yet, the app maintains a history of the tracks I've listened to—a most welcome convenience when I hear something I like but the next track starts playing

before I can discover who the previous artist was. In addition, I can tap the Menu button to bookmark the track or artist, buy the track on iTunes, or find the artist there. (Unfortunately, the two Bookmark commands do little good in the iPad version of the app, since bookmarks are accessible only in the iPhone/iPod touch version.)

The Pandora app is simple to navigate, it's compatible with AirPlay, and for no (or very little) money it allows you to listen to music that you're likely to love. (The “very little” part: You'll want to invest in the \$36-per-year Pandora Plan, which rids your stream of the service's occasionally obnoxious advertisements.) What's not to like?

—CHRISTOPHER BREEN

## NEWS

## Instapaper

Other “read this later” services are out there, but Instapaper was the trailblazer—and it's still my favorite, thanks in large part to its iOS apps ([apple.co/1z12](http://apple.co/1z12); [macworld.com/7941](http://macworld.com/7941)).

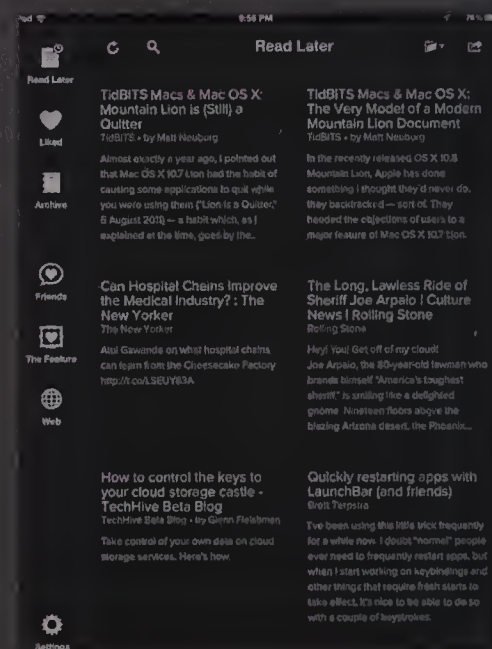
If I see an online article that I don't have time to read, I send it to my Instapaper account (through a browser bookmark, email, or the Send To Instapaper feature of countless Mac and iOS apps). When I launch the Instapaper iOS app on an iPhone or iPad, it downloads the articles for offline reading.

The app presents articles stripped of ads and obnoxious formatting. I

can adjust the line spacing, margins, fonts, and screen brightness; for even easier reading, Instapaper can automatically shift from black type on white during the day, to a sepia look at dawn and dusk, to white type on black at night.

Even better, if you have the app installed on more than one device, Instapaper syncs your location in articles. You can organize articles in folders and mark articles you especially enjoy as Favorites, too. The features go on and on.

I use Instapaper every day, and I've given it the highest honor I can give an app: It's not only on my first Home screen, it's in my dock as well.—DAN FRAKES



**Optimized for Reading** The Instapaper iPad app shows articles in a grid view reminiscent of a newspaper or magazine.



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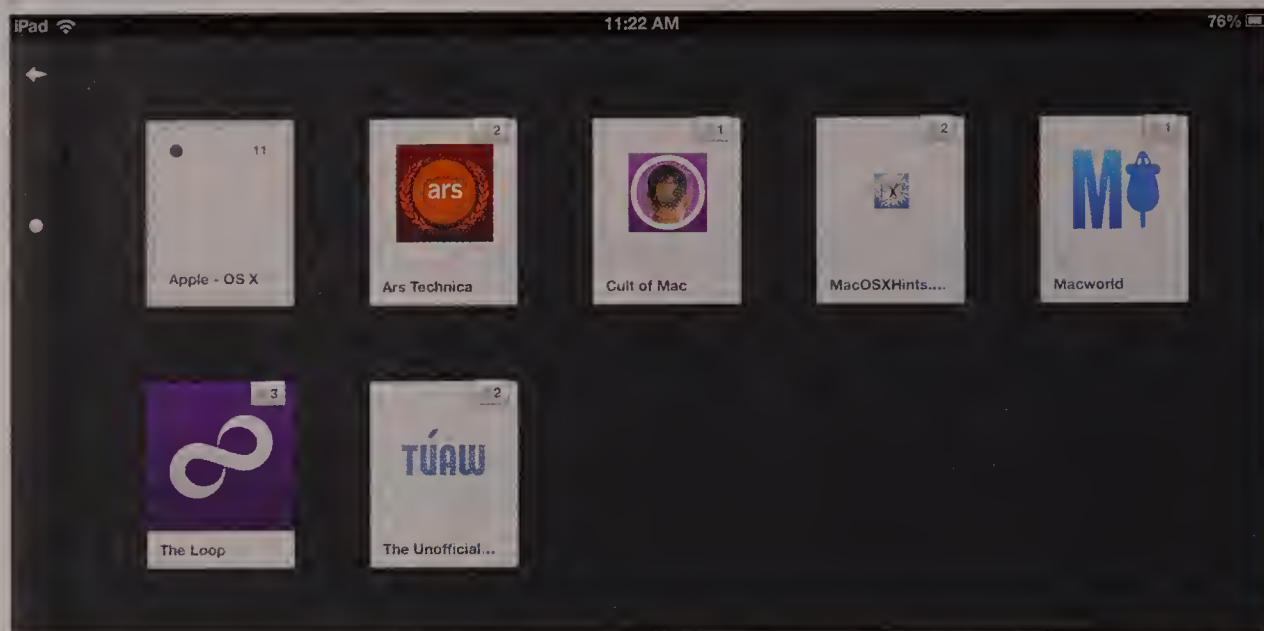


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[www.zipcloud.com/macworld](http://www.zipcloud.com/macworld)

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## NEWS

## REEDER

I love RSS. I subscribe to a couple hundred feeds, ranging from tech and world news to personal blogs and humor sites. The Reeder app (📱📱📱📱; [macworld.com/7939](http://macworld.com/7939)), on the iPhone (\$3) and especially on the iPad (\$5), makes navigating all of my feeds a pleasure.

Perhaps Reeder's greatest trick as an iPad app is that it allows me to drive it completely with a single finger: I can tap into a subfolder of feeds, an individual feed, an article, and so on, all effortlessly. The app is also packed with clever options

**News Organization** The Reeder app allows you to browse RSS feeds quickly, and offers multiple options for sorting and sharing.

that allow me to browse feeds my way, digest them quickly, and then share or save them as I desire. For example, I prefer to see my feeds sorted by the timestamps on the stories in them, but if I wanted to group them by source, that option is just a tap away.

Similar to many newsreaders, Reeder can work with your Google Reader account. That means regardless of which app you use on your Mac (I use NetNewsWire), your unread articles always remain in sync between the two

platforms. And if you tap and hold on a link, you get a slew of configurable options for sending the selected story to Instapaper (see page 38), Twitter, email, or a lengthy list of other services.

For all of those reasons and more, Reeder is my single favorite way (particularly on the iPad) to navigate the unceasing flood of articles my many subscriptions bring me. The Reeder app makes keeping abreast of what's going on both quick and enjoyable.—**LEX FRIEDMAN**

## PRODUCTIVITY

## DROPBOX

Clever as my iPad may be, I still can't rely on it alone for work. For many tasks, I need a Mac and an iPad to do my job.

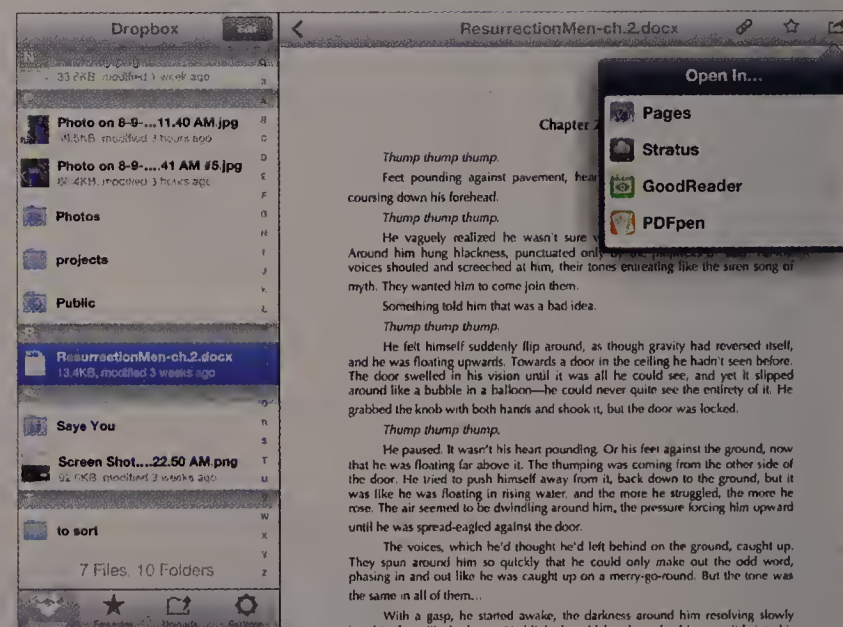
That's why I love the free Dropbox app (📱📱📱📱; [macworld.com/7943](http://macworld.com/7943)). Not only does it let me view files I've uploaded to the cloud-sync service, but it also allows me to open files in other apps and share them. The service integrates well with other apps, too; for example, uploading photos or video

from the Camera Roll is easy. And Dropbox has a viewer that lets me see Word and Pages files, images, and video without leaving the screen.

When I first tried Dropbox on my Mac, it became one of my favorites. With the arrival of its iOS apps, it became something I can't live without.

—**SERENITY CALDWELL**

**Easy File Access** Dropbox lets you open items in other apps.



## NEWS

## Clear

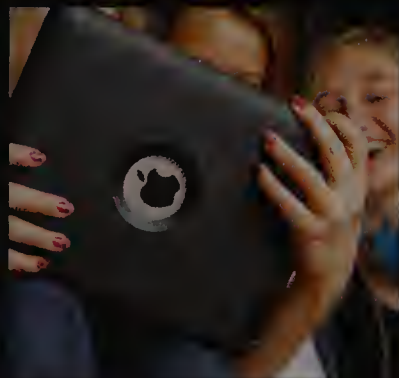
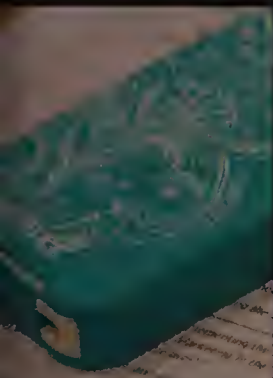
The \$3 list-keeping iPhone app Clear (📱📱📱📱; [macworld.com/7942](http://macworld.com/7942)) doesn't look or act like anything else on your phone.

The interface consists of bold horizontal stripes (in your choice of colors); you'll find none of the usual iPhone interface elements. You drag or pinch stripes to navigate from list to list, add items, and access the settings. That could explain why I like Clear so much: It does one thing and one thing only, but it does that job very well, with as simple an interface as possible.

Clear makes recording, rearranging, checking off, and deleting items easy; I can do the last three with just my thumb.

I wouldn't use it for work to-do lists. But for simple lists, I've found nothing better.—**DAN MILLER**





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**PROTECTION**  
*for what's next*



\*Source: The NPD Group/Retail Tracking Service/November 2010 - June 2012

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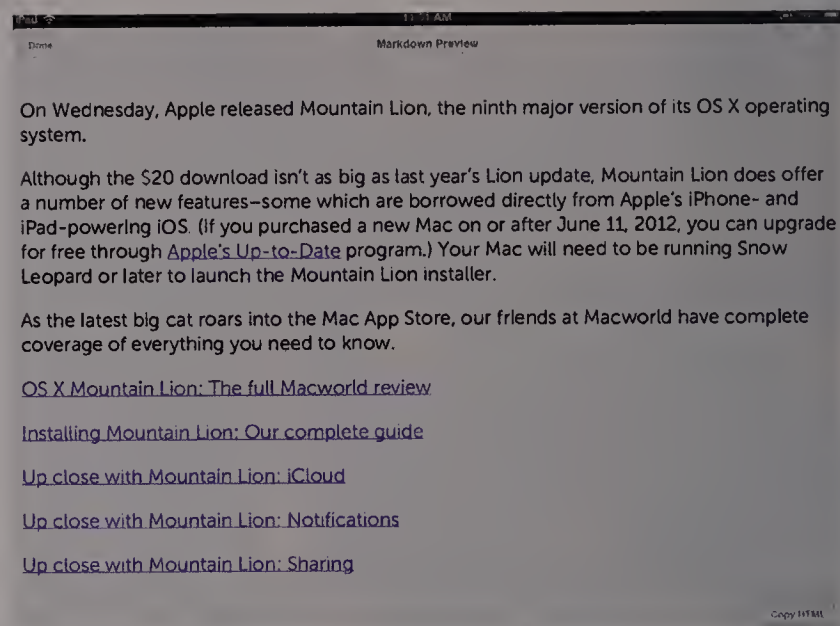
## PRODUCTIVITY ELEMENTS

At some point in getting to know my iPad, I realized that I needed a reliable way to create and edit plain-text documents on the tablet. After trying a good number of the many text-editing options available out there, I settled on Second Gear's \$5 Elements ([🔗](#); [macworld.com/7944](#)). Why? Because it just works.

Elements provides a clean interface, syncs its content via my Dropbox account, runs natively on the iPhone and the iPad, supports and previews the Markdown plain-text syntax format, and works with the TextExpander iOS shortcut app. And it costs only \$5.

To customize the app's look and feel, I can choose the font, text size, text width, and background appearance. And although everything I work on is available through Dropbox, I can also email or print the text, publish the content to Facebook or Tumblr, or export items as HTML or PDF files to Dropbox, iTunes, or email.

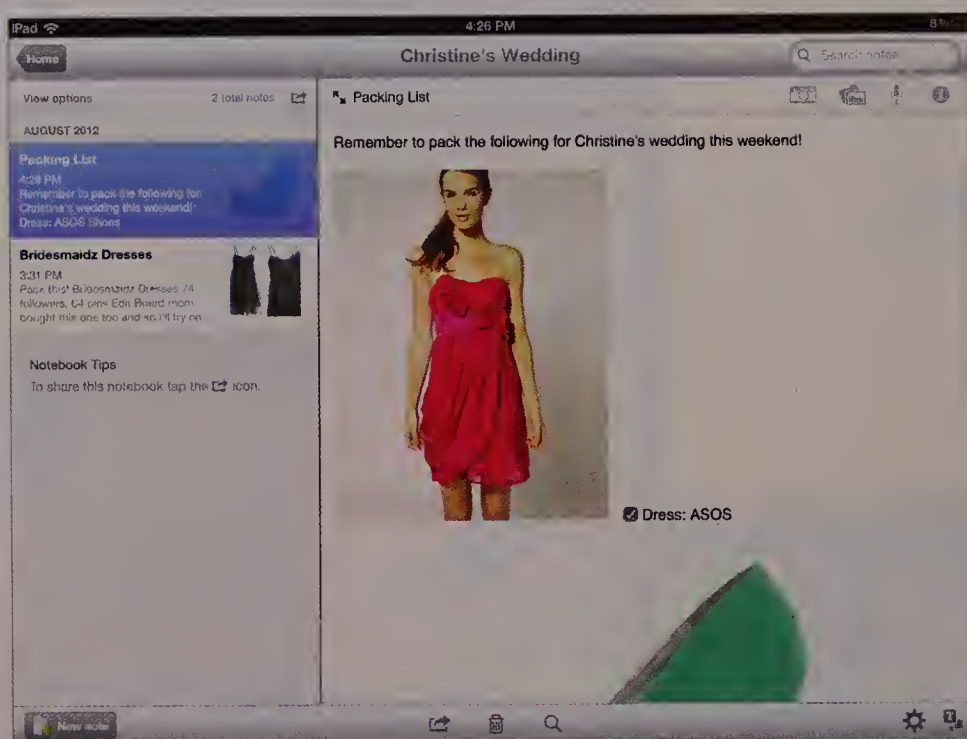
I find Elements so useful, in fact, that I've started using this editor for things that its designers probably didn't have in mind originally—for example, shopping lists. I create a grocery list on my computer and then toss that text file into Elements' Drop-



box folder. When I get down to the market, I open the app and have my food list ready.

—JONATHAN SEFF

**Clean Formatting** In the Elements text editing app, you can edit and preview files in the Markdown plain-text syntax format.



## PRODUCTIVITY EVERNOTE

I'm a compulsive note taker. An essential part of my flow (not just my workflow, but my general life flow as well) consists of making to-do

lists, taking notes, and jotting down ideas whenever they occur to me. Evernote is the perfect tool for that: I can take my jumbled lists and notes, and sort them into organized notebooks with tags for

### Notes and More

Through Evernote, you can clip and store online articles and images.

use Evernote for: I take notes on my iPad during meetings and while I'm researching stories. I clip online articles, images, and even entire Web pages. I record and store voice memos with the app. Because it recognizes dates (much as iOS's own Notes app does), I can quickly create an event for my calendar. To keep track of my to-dos, I simply create a list and add an empty checkbox next to each item; as I complete a task, I tap the box to mark it off.

Certainly, I've found many other note-taking tools, and a lot of them can sync across all of my devices. But although I've tried other tools—including Notebooks, Projectbook, and Simplenote—Evernote's easy-to-use platform and consistent updates make it my favorite.

—LEAH YAMSHON

different tasks and categories. I use Evernote across my Mac and iPhone as well as on my iPad, but the iPad is where this free app ([🔗](#); [macworld.com/7945](#)) truly shines.

Among the many things I



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**H.264**

### More Connections and H.264

ATEM Television Studio includes loads of SDI and HDMI connections for professional SDI cameras or HDMI consumer cameras! All inputs feature re-sync so you can plug in anything! You also get SDI and HDMI outputs, plus built in H.264 encoding for generating files for the internet, iPhone, iPad and more! Imagine live production direct to H.264 QuickTime files for instant viewing!



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## PRODUCTIVITY

# GoodReader

Although iOS has file-viewing features, they're limited. That's why the \$5 GoodReader (★★★★; [macworld.com/7946](http://macworld.com/7946)) is one of my must-haves. This app lets me view PDFs, text files, Office and iWorks docs, HTML files, Safari Web archives, and photos, as well as play back audio and video files. The app lays out and crops pages in a number of ways for easier reading, and it has a Night Mode for better low-light reading. It also performs cross-document search.

But GoodReader goes beyond file viewing. When I'm reading a PDF, I

can annotate, bookmark, highlight, draw, and add notes to the file; I can then save these modifications and share the edited document. I can also extract the text of a PDF, and the app offers tools for copying, moving, renaming, linking, and sharing files.

One of my favorite things about GoodReader is how easy it is to get files into the app: I can use iTunes' File Sharing, email, the Finder (by connecting to my iOS device through Wi-Fi or USB), a Web URL, WebDAV, cloud storage services, and more. GoodReader is simply the easiest way to work with files on an iPad or iPhone that I know of. —**DAN FRANKS**



**Making Arrangements** The GoodReader app gives you several layout and cropping options for comfortable reading.

## PRODUCTIVITY

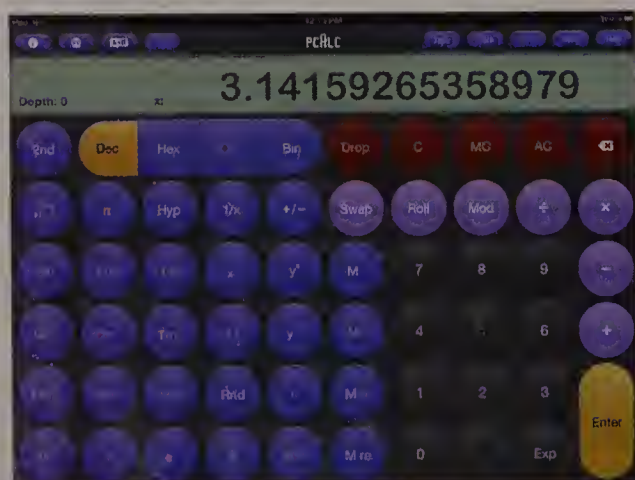
# PCALC RPN CALCULATOR

Thank goodness Apple didn't include a calculator app with the iPad. It would have ended up in a folder with all the other Apple apps I don't use and can't delete, replaced with the \$10 PCalc RPN Calculator (★★★★; [macworld.com/7947](http://macworld.com/7947))—in my opinion the best calculator app for iOS.

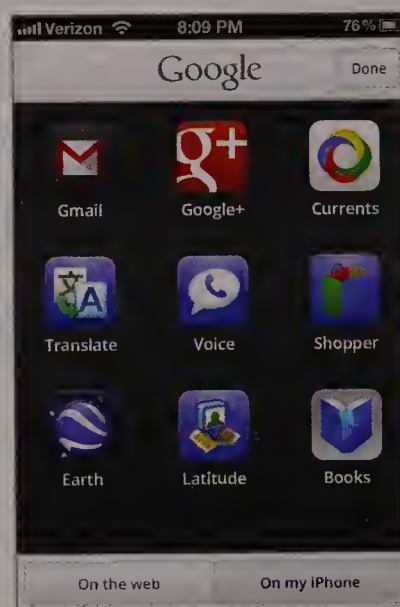
PCalc excels at complicated math problems. The "RPN" part of its name refers to one of

my favorite features: support for Reverse Polish Notation. That's an efficient method for creating mathematical expressions—no need to deal with parentheses. I also love the Conversions tool: Enter a number, tap the A->B button, and the app instantly converts that number to a different unit (fluid ounces to cups, for instance, or meters to feet).

If you want a calculator for basic math problems, PCalc might be overkill. But if you need more, PCalc definitely has it. —**ROMAN LOYOLA**



**Problem Solver** PCalc can handle a wide array of scientific and programming functions.



## REFERENCE

# GOOGLE SEARCH

The free Google Search app (★★★★; [macworld.com/7948](http://macworld.com/7948)) seems redundant: After all, why not just use the iOS Web browser? The reason is that Google Search offers more than Safari's search box does.

That "more" starts with voice input. Even before Siri, Google Search allowed you

**Beyond Search** You can access assorted Google offerings by way of the Google Search app.

to talk to it, making searches easier. As we went to press, Google announced that it's adding even more advanced vocal support, making spoken searches more intelligent than before. For example, you'll no longer need to use cryptic Google-ese; you can ask "When is Spider-Man playing?" instead of saying "showtimes Spider-Man."

It refines its basic search skills by adding support for Google Goggles, which lets you search the Web via pictures, and by focusing your searches vertically (images, news, and so on). Of course, Google Search now does way more than just search. It also gives you access to Google apps such as Mail, Calendar, and Docs. It's so useful, I sometimes forget I'm using it.

—**DAN MILLER**



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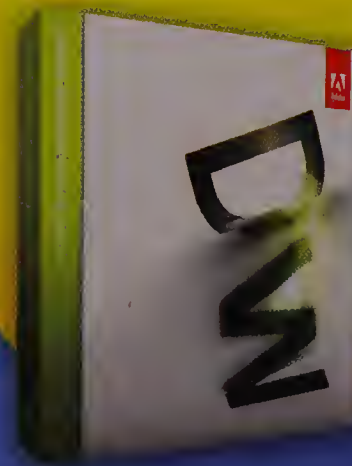
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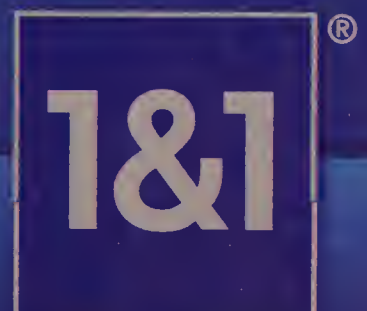


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## SOCIAL NETWORKING

## FACEBOOK

No service is as personal as Facebook, so it makes sense that Facebook and the iPad go so well together. I can use Facebook through my browser on a regular computer, of course, but when I use the free Facebook app (📱📱📱; [macworld.com/7950](http://macworld.com/7950)) on the iPad, my tablet is devoted to my Facebook experience. I become completely immersed in my Facebook page, so I can pay close attention to the posted updates for my family, friends, and favorite (liked) things. I have my entire personal life in my hands.

Although some people might prefer the alternative interfaces available in third-party Facebook apps, I like the fact that the official Facebook app is almost a mirror image of

the Facebook Web interface. The app is at its best in landscape mode, in which a list of my friends who are online appears in a column on the right side. If I feel like chatting with a friend, I just tap that person's name, type a message, and send it. Facebook's Web interface works the same way, but on the iPad, both the names and the profile pictures are nice and big, which helps remind me that I'm dealing with another person on the other end.

The one major qualm I have about the Facebook iPad app is that it lacks the pop-up menu that's available in the Web interface on Wall postings. I like to use that menu to hide postings I'm not interested in or I'm done following. The menu is also helpful when

I want to change my subscription status to a particular friend. Despite that missing feature, however, Facebook is still the app I use most often.—**ROMAN LOYOLA**

**Personal Contact** In landscape mode, the Facebook iPad app offers a clean layout that helps you get in touch with friends.



## SOCIAL NETWORKING

## TWEETBOT

I tried to resist Twitter's allure years ago. I failed. A key element of my infatuation with it is the surfeit of third-party

apps that offer easy access to the service from my iPad and iPhone. Of those, the \$3 Tweetbot (📱📱📱; [macworld.com/7949](http://macworld.com/7949)) is my favorite.

com/7949) is my favorite.

Tweetbot not only includes all the necessary features, but also executes them flawlessly, offering smooth scrolling through tweets, the ability to fill in any timeline gaps, integrated push notifications for mentions or direct messages, and the ability to view the full conversations surrounding individual tweets.

I can tap and hold on a tweet to copy it, grab its URL, or email it. Or tap and hold on

a link to send it to Instapaper (or a similar service), tweet about the link, open it in Safari, copy it, or email it. Or tap and hold on a hashtag to compose a tweet with it, copy it, or mute it (so I don't see tweets mentioning it). And the list goes on: I can tap and hold on users to write to them, manage which lists they're in, disable retweets from them, mute them, and stop (or start) following them.

Although iOS has an abundance of innovative, well-made Twitter apps, none of them can rival Tweetbot's mix of charm, intuitive navigation, and depth.—**LEX FRIEDMAN**

**Follow the Conversation**

Tweetbot provides a wealth of easy-to-use features for staying on top of Twitter activity.





## TRAVEL YELP

Even though the Yelp service itself is not without its detractors, I still find the free Yelp app (★★★★; [macworld.com/7953](http://macworld.com/7953)) indispensable.

The Yelp website is, naturally, the place to go for ratings and reviews of restaurants, bars, stores, doctors, animal shelters, or just about any other public establishment. It's like *Consumer Reports* written (for the most part) by consumers, and it's free. Everyone's opinions are represented—and not everyone is nice or even sensible. But the sheer volume of comments offers its own balance, and Yelp is nothing if not diverse.

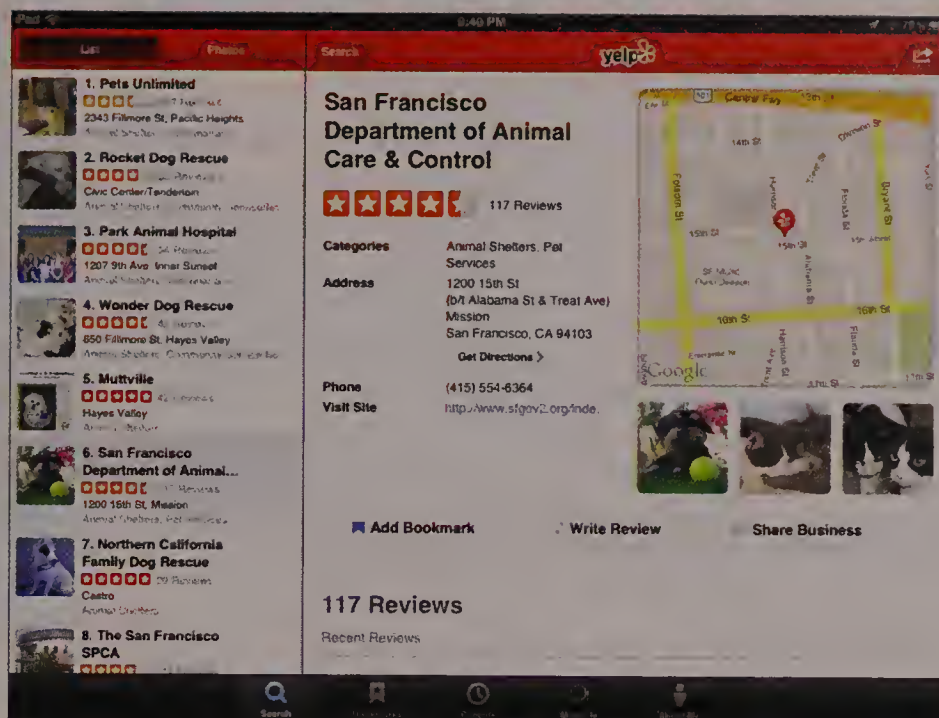
Yelp's iPad interface differs significantly from its website. With its on-the-go orientation, the iPad app lets me immediately type the topic I'm looking for into a Filter box and either

use my current location or type a different location in the Near box. The results then flow onto the screen. I can browse the results in either List view (accompanied by a map pinpointing the location of each entry) or Photos view (which gives me a visual cue about what I'm searching for).

On the website, some reviews are "filtered" or hidden, and you have to finish an elaborate CAPTCHA process to view them. On the iPad app, you don't even know this filter exists; filtered reviews simply don't appear. Yelp has had its share of criticism about how it derives its overall rankings, but from

my perspective anyone who uses the Web should know not to take all comments or websites at face value.

Approached with a "trust but verify" mentality, the Yelp app is still a great tool to find out where to eat, drink, and shop wherever you have your iPhone or iPad.—**JACKIE DOVE**



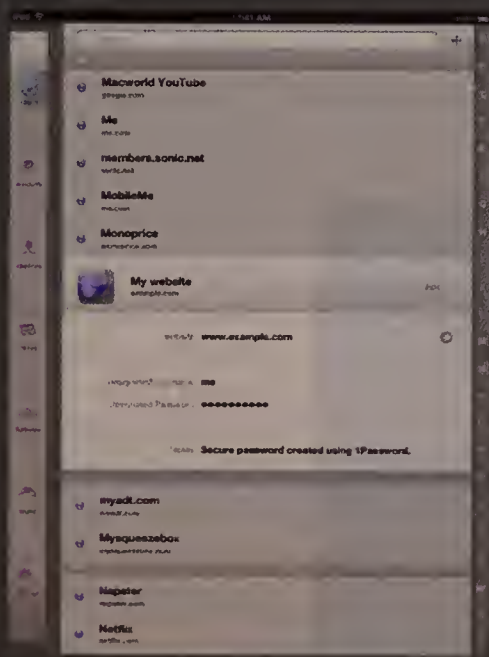
**The People's Choice** The Yelp app brings you consumer ratings and reviews for just about any local establishment.

## UTILITIES

### 1Password Pro

I rely on AgileBits' excellent 1Password app (★★★★; [macworld.com/7951](http://macworld.com/7951)) to keep track of, enter, and even create passwords on my multiple Macs. But I don't need passwords on my desktop alone. That's where the company's \$15 1Password Pro (★★★★; [macworld.com/7952](http://macworld.com/7952)) becomes so essential.

Whether I'm logging in to a banking site, entering my Pocket credentials into my iPhone Twitter app, or looking up my Impossible-to-remember (and 1Password-generated) Spotify password for the music service's iPad app, all the info I need is at my fingertips



**Safe and Secure** The 1Password Pro iOS app keeps your sensitive details at hand.

thanks to Dropbox syncing of my secure database across all the computers and iOS devices I use.

Unlike on the desktop, I don't just click a button in Mobile Safari to submit passwords. Instead, I unlock the app, and I handle my passwords with the embedded browser, or I copy and paste my sensitive details for various apps. I can store secure notes, credit card info, and software licenses too. While the app works great if you employ its desktop software, 1Password Pro for iOS doesn't require you to have the OS X version. (If you want to run 1Password on only your iPhone or your iPad, the company offers \$10 versions for each specific device.)—**JONATHAN SEFF**



## UTILITIES

## SCREENS

When I was growing up, accessing other computers required typing arcane strings into a command-line prompt. The idea that I might be able to see the computer I was logging in to seemed like magic. These days, not only is remotely viewing my desktop easy, but an app like Screens (★★★★; [macworld.com/7955](http://macworld.com/7955)) even lets me do it from a handheld device.

What makes Screens stand out is the sheer degree of thoughtfulness that went into its design. The app has no shortage of features, including the ability to remember multiple connections, securely connect to remote systems via SSH, and even configure multitouch gestures for specific commands. But it

doesn't bombard you with options if you don't want them (or don't know what they are).

Although Screens works fine with OS X's screen-sharing and remote-login services, developer Edovia offers a desktop helper app for Mac or Windows, Screens Connect ([edovia.com/en/screens.html](http://edovia.com/en/screens.html)), that makes the process even easier, saving you from dealing with tasks such as setting up port forwarding and remembering IP addresses.

Best of all, Screens works wonderfully with iOS's touch interface. I can pinch-to-zoom the remote screen, and tap where I want the cursor to go. It offers a virtual keyboard, plus specialized function buttons for common actions such as Spotlight, Page Up



**Remote Viewing** The versatile Screens app gives you complete access to your other computers, and works well with iOS's touch interface.

and Down, and sending the current pasteboard. The app is responsive, too: Even connecting to my home Mac mini over coffee-shop Wi-Fi provided a connection with surprisingly low latency.

If you ever need to access

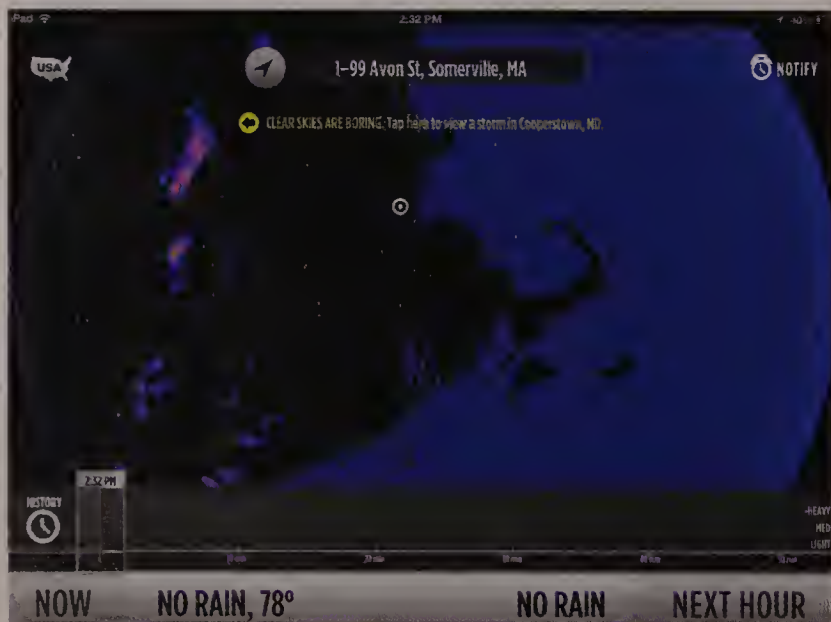
your Mac when you're not at home, or if you have a Mac hooked up to a TV as an entertainment center, or, heck, if you just feel like not getting up from your couch, Screens is an indispensable addition to your iPad.—**DAN MOREN**

## WEATHER

## DARK SKY

Most weather apps bombard you with more atmospheric data than you could shake an anemometer at. Unless you're a serious weather junkie, most of that data isn't very useful.

Dark Sky ([macworld.com/7954](http://macworld.com/7954)) provides what *is* useful. The app focuses on current conditions and the next hour, telling me when precipitation is due and when it'll stop.



When I need to plan ahead, I just flick to see the forecast for the next 3 hours, as well as the following day or so.

Accuracy is Dark Sky's killer feature. It once told me that rain would start in 2 minutes and end 25 minutes later. Skeptic that I am, I set a kitchen timer. Sure enough, the skies opened up right around the 2-minute mark, and 25 minutes later the rain began to taper off. Dark Sky has the goods. (It's powered by data from the National Oceanic and Atmospheric

Administration.) The app can even notify me about imminent precipitation, so I have time to find cover.

If you think a weather app isn't a weather app unless it has a radar view, don't sweat: Dark Sky has a gorgeous one, in shades of purple, pink, and yellow. It will even project the radar view over the next hour, so you can get an idea of when bad weather is coming. It also offers a national radar.

If you want to see whether this will be a good week at the beach, Dark Sky may not be the right choice—but if you want to know whether to take an umbrella when you leave the house, it's the best option around.—**DAN MOREN**

**Rain or Shine** In Dark Sky, you can learn about current conditions in your area, and you can bring up a radar view to get the big picture.



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# Top Tips for Mountain Lion

MACWORLD READERS SHARE  
THEIR FAVORITE TRICKS FOR  
THE NEW OS X

**W**henever a new Mac operating system comes out, *Macworld's* editors madly scramble around, looking for tips and tricks that will make using that OS easier and more efficient. *Macworld's* readers do exactly the same thing. To be perfectly honest, those readers often beat us to the punch on finding many of those tips and tricks. So this time around, with OS X Mountain Lion, we decided to go straight to you, the reader, for ideas on making the most of the latest Mac OS.

More specifically, we scoured the postings on the Mac OS X Hints website ([hints.macworld.com](http://hints.macworld.com)), where all kinds of users post all kinds of tips. Every month, we post the best of those tips in our *Mac OS X Hints* column; this month, we had so many tips for Mountain Lion that we decided to devote a whole feature to them.

These tips range from basic to advanced. Some we already knew, but decided to pass along just in case you didn't. Others were new to us; we hope they're new to you as well. In either case, if you've already upgraded to Mountain Lion, you should find some tricks and techniques here that'll help you get more out of Apple's latest OS right away. If you haven't made that leap yet, clip and save this story until you upgrade.

ILLUSTRATIONS BY  
**ANDREW BANNECKER**



# The System



## Find Apps Fast with LaunchPad

Dock or the Applications folder; move the cursor to a hot corner you've specified in either the Desktop & Screensaver or Mission Control system preference; or press a keyboard combination configured in your Keyboard preferences. You'll then see a search field at the top of the window. You can use this field to quickly find any application: Just type the first few letters of its name. Launchpad searches by the name's initial letters: **pre** will find Preview (as well as System Preferences), but **rev** won't. Also, the search feature gives special weight to capital letters in an app's name, so **qt** returns QuickTime Player, **sp** returns System Preferences, and **p** returns iPhoto, for example.

When Apple introduced LaunchPad in OS X Lion, it seemed suited only for Mac beginners. But with Mountain Lion, Launchpad has become much more capable as an application launcher.

To activate LaunchPad, you can either launch it from the

## Three Quick Ways to View Notification Center

You can open Notification Center by clicking its icon in the menu bar. But here are three other ways to display it:

1. Swipe with two fingers from the right edge of your trackpad to the left. (This works fine on a laptop, but less well with a Magic Trackpad, as your fingers can't slide from the surface next to the trackpad.)

2. Use a hot corner: Go to either the Desktop & Screensaver pane or the Mission Control pane in System Preferences, and click the Hot Corners button. Choose Notification Center from the drop-down menu for the corner you want to use. You can now open Notification Center by moving your cursor there; you close it by clicking elsewhere on screen or moving your cursor back to the corner.

3. Set a keyboard shortcut: In the Keyboard preference pane, click the Keyboard Shortcuts tab, and then click Mission Control. Notification Center is listed in that section; select its checkbox to add a shortcut, and type the shortcut in the field that appears. Pressing that shortcut toggles the display of Notification Center on and off.

## Temporarily Hide Alerts and Notifications

If you're overwhelmed with notifications, you can pause Notification Center with one click. Press Option while clicking the Notification Center icon at the right end of the menu bar. This pauses the display of notifications until the next day. Alternatively, if you scroll down when Notification Center is visible, you'll see a Show Alerts And Banners switch that you can toggle off. To reactivate Notification Center, Option-click the same icon again or toggle the Show Alerts And Banners switch on.

## Pinch to Zoom in Quick Look

In Mountain Lion, you can use two-finger pinch and spread gestures to change the way the files you're previewing are displayed. When you use Quick Look to





## Do you want to replace the backup disk "AirPort Disk" or back up to both disks?

If you use both, Time Machine will take turns backing up to "AirPort Disk" and "Disque dur".

Cancel

Replace "AirPort Disk"

Use Both

## Use Multiple Drives with Time Machine

Mountain Lion lets you specify more than one hard disk for Time Machine backups. Go to the Time Machine pane in System Preferences and click on Select Disk. If you already specified a backup disk set and then you select a second one, you'll see a dialog box asking if you want to replace the current disk or use both disks for backups. You are then told that if you use both disks, Time Machine will take turns backing up to each disk. This

last option is especially useful if you have a laptop and want to back up your files to one hard disk at home and another at work.

view PDFs and Web archives, spreading two fingers apart zooms in; pinching them together zooms out. (Oddly, these gestures don't work with graphics files.) With other file types, those gestures behave as they did in OS X Lion: Spreading switches you to full-screen view, and pinching returns you to a regular window. To switch to full-screen mode when using Quick Look with a PDF or Web archive in Mountain Lion, move the cursor to the title bar and spread your fingers. However, you can't pinch to exit full-screen mode with these types of files.

## Restore RSS Visualizer Screensaver

Mountain Lion no longer includes the RSS Visualizer screensaver, but you can copy it from a Mac running Lion. On that other Mac, go to /System/Library/Screen Savers and find the file RSS Visualizer.qtz. Copy it to *youruserfolder/Library/Screen Savers* on the Mac running Mountain Lion. (Create that folder if necessary.) You can now select this screensaver from the Desktop & Screen Saver pane in System Preferences.

## Keep Your Mac Awake

With Mountain Lion, you may find that your Mac goes to sleep when you don't

want it to (when you're delivering a presentation, perhaps, or watching a video). Say you've configured your Energy Saver preferences to put your Mac to sleep after 15 minutes of inactivity. You may notice that even when there's an active process, such as a download, your Mac still goes to sleep after 15 minutes. Some users have even reported this

happening when they change the sleep setting to Never.

There is a solution to sleepy Macs, in the form of a new command, **caffeinate**. To implement it, type the following command in Terminal: **caffeinate -u -t 3600**. The **3600** there indicates the number of seconds before the system's sleep settings go into effect; in this case, the 15-minute countdown to sleep won't begin until 3600 seconds have passed. You can also run the command without the time switch; in that case, your Mac will stay awake until you stop the command by pressing Control-C in Terminal.

## Select AirPlay Device from Menu Bar

The standard way to play your Mac's audio over an AirPlay device (such as an Apple TV or an AirPort Express) is to open System Preferences, click on the Sound pane's Output tab, and select the device. There's a quicker way: If you have the Volume menu visible in the menu bar, hold down the Option key while you click on its icon. That will enable you to select audio inputs and outputs—including nearby AirPlay devices. Unfortunately, this menu displays only the last selected AirPlay device. If you don't want to use that one, you'll still need to revisit the Sound preference pane.

## Send Tweets from Share Panels with Keyboard Shortcut

If you want to tweet something by clicking a Share button or by using the Tweet field in Notification Center, there's a quick way to send it: Instead of clicking on Send, just press **⌘-Shift-D**. You can also use this shortcut to send an email that you've composed.





# iCloud

## Find iCloud Documents via Smart Search

Here's one way to find your iCloud files: Go to *yourusername/Library/Mobile Documents* and type something—anything—in the Finder window's search field. Make sure Mobile Documents, not This Mac, is selected in the Search bar. Next, click on the plus-sign button (+), and choose Kind Is Document. Now erase whatever you typed in the search field. All of your iCloud documents should display. Click on Save, and check Add To Sidebar to add this search to your Finder window sidebars.

## Switch to iCloud via Open and Save Dialog Boxes

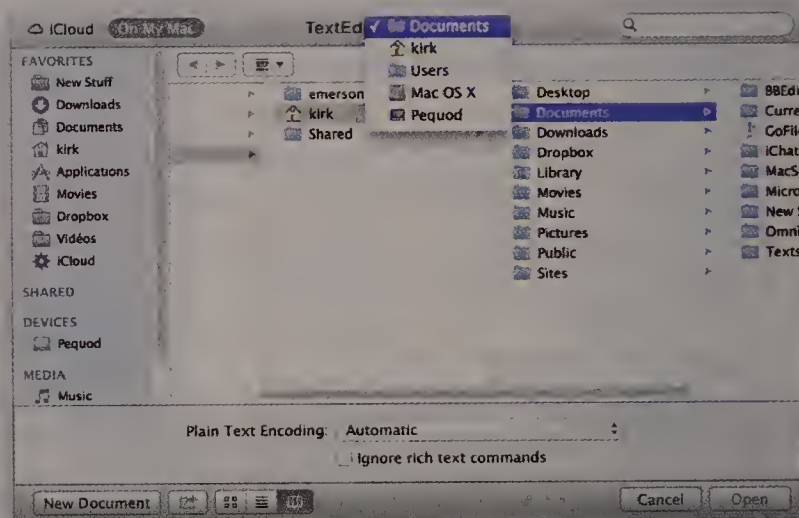
For a long time, you've been able to access key system folders from an Open or Save dialog box via shortcuts: ⌘-D for the desktop, ⌘-Shift-H for your home folder, and so on. (The Finder's Go menu lists the shortcuts.) Now, a new shortcut lets you jump directly to iCloud, at least in apps that support it: ⌘-Shift-I. So if you see the folders on your Mac in an Open or Save dialog box, press this shortcut to go directly to iCloud.

## Disable iCloud Open and Save Dialog Boxes

If you use iCloud for some of its features but not to store files, you might want to disable the new Open and Save dialog

## Access File Path Pop-up in iCloud Open Dialog Box

Apps that let you store files in iCloud have a nonstandard Open dialog box: The usual pop-up menu at the top that lets you navigate from your current location is hidden. In the Open dialog box, choose On My Mac and you'll see the name of the application, followed by a dash and the current folder's name. Just ⌘-click on the folder name to display a pop-up menu showing the current folder's full path. There's no visual clue that this menu is present, but it works the same way as the pop-up menu in standard dialog boxes.

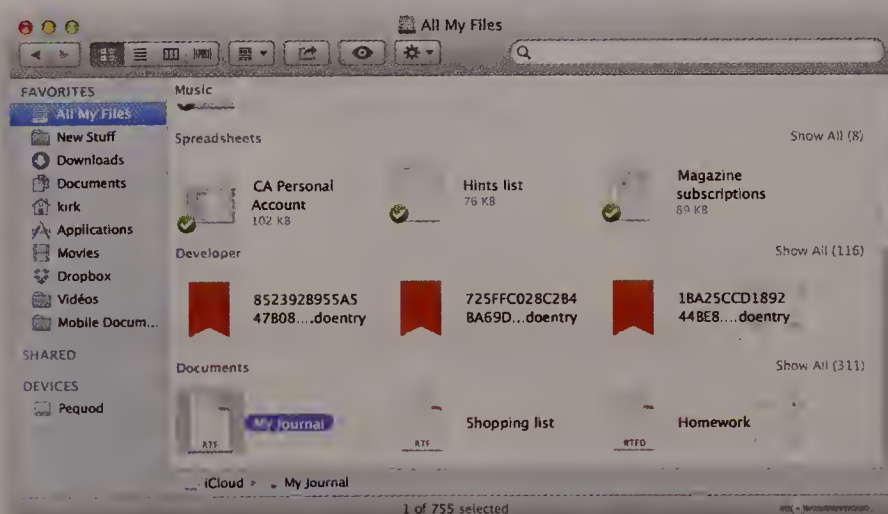


boxes that display when you launch iCloud-compatible applications.

To do so, in the iCloud pane in System Preferences, deselect Documents & Data. This deletes all local copies of files you've stored on iCloud, but not files in the cloud; you can still access those from other Macs or iOS devices. Note: Make sure you don't have any apps that store data on iCloud before you deselect this setting.

## Access Older Versions of iCloud Documents

If you use iCloud to store documents, those files are also stored on your Mac and are therefore backed up by Time Machine (if you use that feature). To find an older or deleted version of a file stored in the cloud, display the iCloud pane in any app that supports it. Then click the Time Machine icon in the menu



## Another Way to Find iCloud Documents

you've specified in the Arrange By option, whether they're on your Mac or on iCloud. If you select an iCloud document, the path bar will again tell you that its location is simply iCloud. (If All My Files isn't in the Finder sidebar, add it in the Finder's preferences.)

Here's another way to access iCloud documents: Click All My Files in the Finder sidebar. All your files will show up in the order



bar and choose Enter Time Machine. This gives you a Time Machine view of the iCloud pane for that app only, and you can find older versions or deleted files.

## Send Terminal Output to iCloud

Say you want to check the results of a script you run automatically on your Mac. You could remotely connect to the Mac or email yourself the results. But if you use iCloud, you can also save the output file to iCloud and access it via an iCloud-compatible text editor from another Mac or an iOS device: Send the script output to a file using the

path `~/Library/Mobile Documents/com~apple~TextEdit/Documents/filename.txt`. So, for example, to save a list of a directory's contents, you'd use this: `ls -al > ~/Library/Mobile Documents/com~apple~TextEdit/Documents/list.txt`.

That saves a file called list.txt in TextEdit's Documents folder. Look in *yourusername*/Library/Mobile Documents for the paths to other apps that can use iCloud. Each app's folder in the Mobile Documents folder has a Documents subfolder. Depending on the app, you may be able to access those files from another Mac or an iOS device.

## Change Default Save Location from iCloud to On My Mac

iCloud is the default save location for TextEdit (and other apps that store files on iCloud). You can't change this default from within the app's interface, but you can do it using this Terminal command: `defaults write NSGlobalDomain NSDocumentSaveNewDocumentsToCloud -bool false`. This sets the default save location to On My Mac for all of your iCloud-compatible apps. To change it back to the default, run the command again, but this time change the **false** parameter to **true**.

## Access iCloud Files from the Finder

iCloud files are cached on your Mac so that you can open them even without Internet access. You can access these files in the Finder, as well as from the application dialog boxes in the folder *yourusername*/Library/Mobile Documents.

To access files from the Finder, press `⌘-Shift-G` and type that path. Each app has a dedicated folder containing its documents. As you add or remove files from these folders, they are automatically added to or removed from iCloud.

When you go into that folder, it's as if you're accessing iCloud itself: The iCloud icon appears in the Finder title and path bars. If you move a file from one of these folders to the Trash, a dialog box informs you that this also deletes the file from iCloud, and prompts you for confirmation. Add files to these folders and they're added to iCloud. If you don't have Internet access, new documents will be sent to iCloud the next time you connect.

This can be handy if you've created a file in one app and you want to open it in another app that doesn't support iCloud. Say you created a file in TextEdit and want to open it in Microsoft Word. You could open the document from iCloud with TextEdit, and then save it to your Mac and open it again in Word. But if you want to keep the file on iCloud, it's easier to open it directly from the Mobile Documents folder with Word.



# Apps

## Pinch to Zoom in TextEdit, Preview, and Safari

You can use two-finger gestures to zoom in and out in TextEdit documents and in Preview. Spread your fingers apart to zoom in, and pinch them together to zoom out. This also works in Safari, as long as you have only one tab open. If you have multiple open tabs, this gesture does something different; see “View and Select Tabs with Two-Finger Pinch,” page 64.

## Quickly Change Outgoing Email Accounts

Prior to OS X Lion, you could create keyboard shortcuts for switching outgoing mail accounts. That ability vanished in Lion, but it's back in Mountain Lion.

To implement it, go to the Keyboard pane of System Preferences, and click on Application Shortcuts. Click on the plus-sign button (+), and choose Mail from the Application menu. Then enter the name of your account exactly as it appears in the From pop-up menu when you create a new message. It will look like this: **first\_name last\_name my\_email@my\_host**. Make sure to include the angle brackets that enclose the email address, and put a space before the first bracket. Choose a

shortcut, and then click Add. To use your new shortcut, create a new message in Mail. If the default account isn't the one you want to use, press your shortcut to select another account.

## Collect RSS Feed URLs from Mail

Mountain Lion removed RSS functionality from both Mail and Safari. To transfer your feeds to another RSS reader, you can collect all the URLs of your subscribed feed by running the following command in Terminal: **pubsub list client com.apple.mail**.

This produces a list of your feed names and their URLs. You can then copy the URLs for those feeds and add them to your chosen RSS reader app.

## Use Quick Look to View Inline Graphics in Messages

Previously in iChat, you could open the iChat File Transfers window, select a graphic someone had sent you in a chat, and then press the spacebar to preview it in Quick Look. In Mountain Lion, this no longer works. You can, however, click on the graphic in the Messages window, and then press the spacebar to view the image in Quick Look. You can also

double-click the image to do the same thing; in iChat, this would open the image in Preview.

## Add Default Fonts to Notes

Out of the “box,” Notes offers only three default fonts (Noteworthy, Marker Felt, and Helvetica), and there's no option in the app's preferences or menus to change them or add others. There is, however, another way to add fonts.

Control-click (or right-click) on the Notes application, select Show Package Contents, and navigate to Contents/Resources/en.lproj/DefaultFonts.plist. Open this file in a text editor and look for three sets of text that each look like this:

```
<dict>
    <key>FontName</key>
    <string>Noteworthy-
Light</string>
    <key>Size</key>
    <integer>15</integer>
</dict>
```

Copy one of those sections, paste it below those three sections, and edit its text to include your preferred font and size. (You can consult the lists in Font Book to get the names of your fonts.) Note that you can specify weight as part of the name: **-Light**, **-Bold**, and so on.

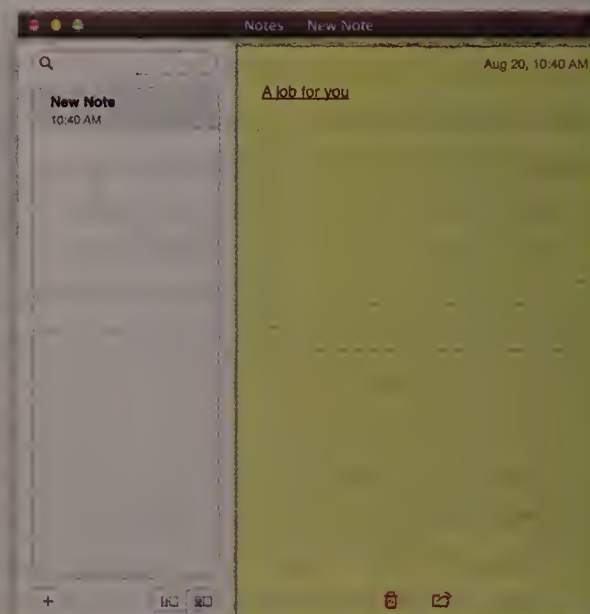
## Create Links to Emails in Notes



If you drag an email message from Mail to Notes, the latter app will display the subject of the email as a clickable link. Click on that link, and the message will open in Mail. You can copy that link—by right-clicking and choosing Copy Link—and then paste it into a text editor. It will look something like this: **message:%3C98A2D2F2-A910-4B63-B3G4-30D9CA021099@macworld.com%3E**.

Many apps will recognize such links as live, while others won't. For example, in an RTF document in TextEdit, it will appear as a live link. BusyCal also treats such links in the Notes field as live. But Apple's Calendar doesn't. Scrivener does, but Microsoft Word doesn't. You'll have to experiment with the apps you use most often to see if they do.

If you drag an email message from Mail to Notes, the latter app will display the subject of the email as a clickable link. Click on that link, and the message will open in Mail. You can copy that link—by right-clicking





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Save the file (you'll probably need to provide your administrator credentials), relaunch Notes, and then choose your new default font from Format → Font → Default Font.

## Any PDF with Lines and Rectangles Acts Like a Form in Preview

Any PDF file with horizontal lines and rectangles can be filled in as if it were a PDF form, even if it wasn't originally intended to be used that way. Clicking on a line opens a text field that's the same width as the line. Clicking on a small rectangle toggles a checkmark; a rectangle large enough for text entry is treated not as a checkbox but as a text field the same width as the box. After you enter text on a line or in a text box, you can move the text elsewhere in the document and retain its formatting.

If you *want* to create an actual PDF form with entry lines and boxes, create a new document in Pages or Word, and add lines and rectangles. Try different sizes to see how they work. Press ⌘-P, click on the PDF button at the bottom of the Print dialog box, and choose Save As PDF. Open the PDF and start typing above horizontal lines and inside rectangles.

## Quick-Edit Reminders Details

You can edit the name of a reminder by double-clicking on it, as you would any bit of text in a word processor or text editor. But you can also edit its details by double-clicking somewhere in the title line other than on the title text; that will open the item's Inspector window. You can, of course, also select a reminder and press ⌘-I or click on the *i* icon to summon the same window.

## Drag Emails to Create Reminders

Many people use their email inbox as a kind of to-do list. Using the Reminders app in OS X—and its ability to sync with the iOS version of the app via iCloud—you can convert such emails into Reminders tasks. To do so, you just drag an email to the Reminders app. However, the process is a bit finicky.



## Choose Number of Days Displayed in Week View in Calendar

In iCal, you could access a hidden Debug menu that contained a number of interesting options. Apple has removed that menu in the new Calendar app, but you can still access some of its options.

For example, if you would like to view two weeks at a time in Calendar's week view, quit Calendar, open Terminal, and type **defaults write com.apple.iCal CalUIDebugDefaultDaysInWeekView XX**, replacing XX with the number of days you want to display. You can use really large values—90, for instance, to display three months in a week view—but each day will be proportionately smaller.

If you don't like the results you get, go back to Terminal and enter **defaults write com.apple.iCal CalUIDebugDefaultDaysInWeekView 7**, and then relaunch Calendar.



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First, if you want to add the email message to a list that has no reminders in it, you just drag the message from Mail to the name of the empty list in the Reminders section of Mail's sidebar. (If lists aren't showing, choose View → Show Sidebar.) If you're adding the message to a list that already contains one or more reminders, you can drag the message to the name of the list in the sidebar, and the item will be added to the bottom of the list. If you want to place it in a particular position in that task list, drag the message into the list itself and position it wherever you want. However you choose to place it, you can click the Show In Mail link in the Reminders app to display the original message.

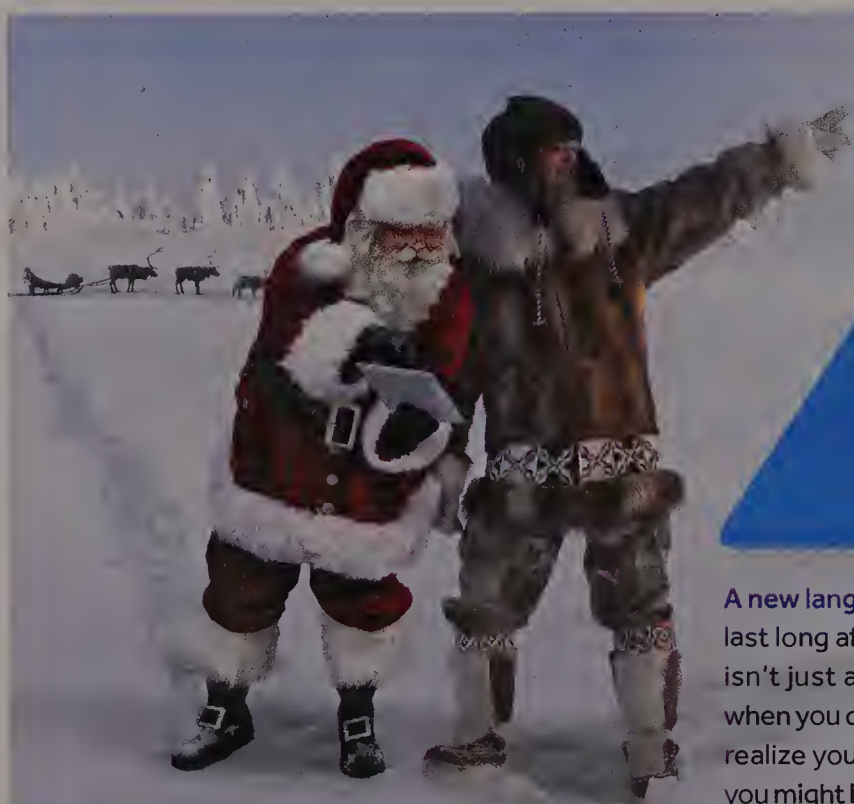
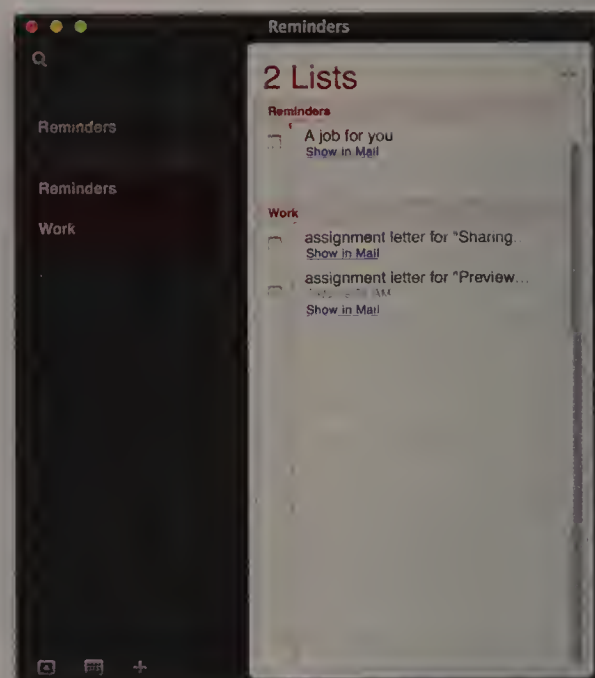
### ⌘-Drag to Terminal to Change Directory

If you use Terminal, you probably already know that you can drag a file or folder onto the Terminal window to

## Combine Reminders from Multiple Lists into One

In the Reminders app, you can select several reminder lists by clicking on one of them and then ⌘-clicking on others; similarly, you can select all of the lists by selecting one and then pressing ⌘-A. When you select multiple lists, the reminders from those various lists will display in one window. That combined list's header will indicate the number of lists you've selected; reminders below that will be separated according to their original lists.

If you then click the Hide Lists button at the bottom left of the app, you get a neatly organized list of all of your unfinished tasks.



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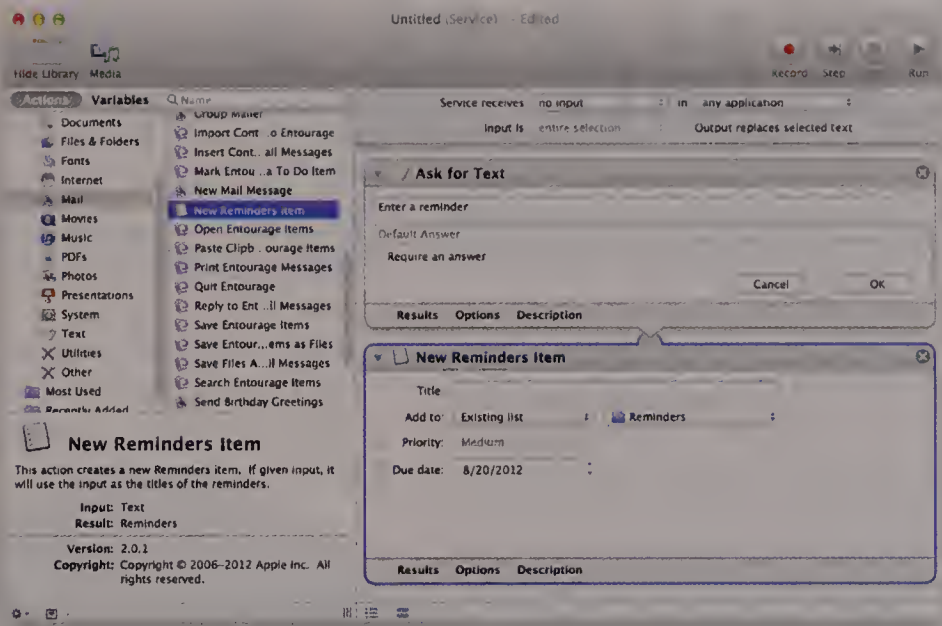
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## Shortcut to Add Reminder

To add reminders without opening the Reminders app, create a shortcut in Automator: Choose Service Receives No Input In Any Application at the

top of the window and, from the Text library, drag the Ask For Text action to the window's right pane. Add a prompt, such as **Enter a reminder**, and, from the Mail library, choose New Reminders Item and drag that below the Ask For Text item. Save the service and, in the Services section in the Keyboard system preference, add a shortcut for it.



insert the item's path in a command. With Mountain Lion, however, this method has changed slightly.

If you hold down the **⌘** key while dragging an icon to a Terminal window, that will change the current working

directory to either the directory you dragged (if it's a folder) or the directory containing the item you dragged (if it's a file). This means Terminal not only accepts the path of the item, but also performs a **cd** command with that file.

As in earlier versions of OS X, you can also drag a folder onto the Terminal icon in the Dock to change the working directory for the command line. If you drag a file onto the Terminal icon, however, nothing happens.

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# Safari

## Share Webpages from Safari

In previous versions of Safari, you could email a link to a webpage by pressing ⌘-Shift-I. This command, which is visible in Safari 6 on Lion, doesn't show up in Safari on Mountain Lion. However, the shortcut works, even if it isn't readily visible; you can see it by choosing File → Share and then pressing the Shift key.

But that's not the only way to share webpages. If you choose File → Share, you'll see three options: You can email the page or share it via Messages or Twitter. If you choose to email the page, Mail will, by default, email the entire page, with its full layout and all its graphics. But you can click on the Send Web Content As menu in your message (at the top right

of the window, just above the content). Three options are available here: Web Page, PDF, or Link Only. If you need to send an actual webpage to someone, PDF might be the best bet, as the full webpage might not display correctly for Windows users.

## Share Webpages from Keyboard

With the Share button in Safari on Mountain Lion, you can share webpages using Twitter or Messages. There are no default keyboard shortcuts, but you can create your own.

Open System Preferences and click the Keyboard icon, and then the Keyboard Shortcuts tab. Click Application Shortcuts,

and then click the plus-sign button (+).

Choose Safari as the application, and then enter either **Twitter** or **Messages** as the Menu Title. Enter the keyboard shortcut you want—⌘-Control-T for Twitter and ⌘-Control-M for Messages, say—and then click Add to apply the shortcut.

Quit Safari and relaunch it. If you click the Share button in the toolbar, you won't see your new shortcuts, but they will work. You can see them by choosing File → Share.

## Navigate Safari's Auto-Complete Menu

When you type something into Safari's new unified address and search field, an autocomplete menu appears, containing



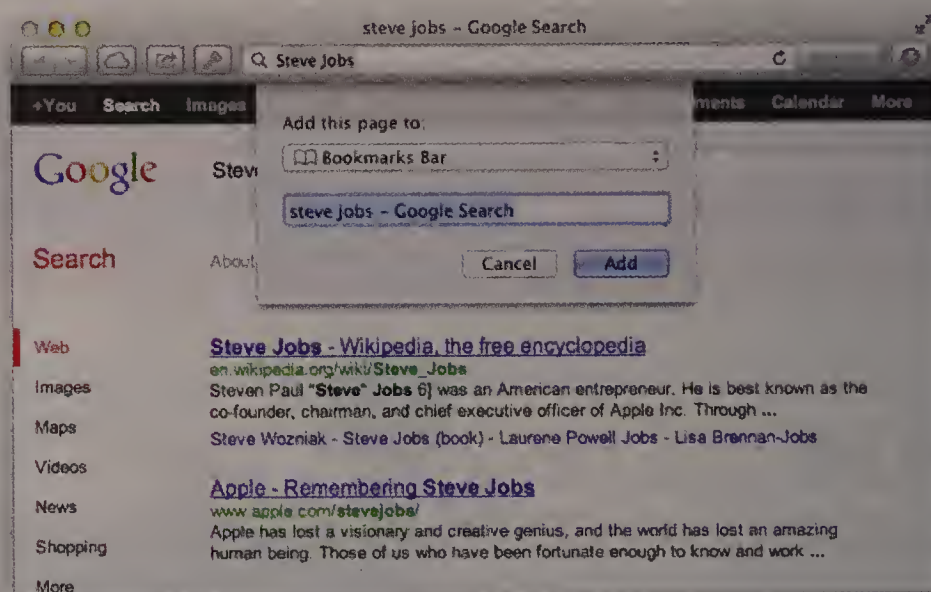
Safari 6 has a new combined URL and search field. If you type a search term into that field and then press Return, you'll get a Google page with search results. But, oddly, the URL for that Google

search won't appear in that field; instead, the search term itself will remain there. This can be frustrating, because sometimes you want the URL for the Google results page, either to save or to share.

There are a couple of ways to get that URL, though. One uses AppleScript. Open the AppleScript editor and enter the following script: **tell application "Safari" to set the clipboard to URL of current tab of window 1 as string.**

Save that as an application. Double-clicking that application will save the URL of the frontmost Safari tab to the clipboard; from there you can paste it wherever you want.

If you don't want to mess with AppleScript, you have other alternatives: You can drag the favicon in the URL and search field to a Finder window after you've run a search. (For a search, the favicon is the magnifying-



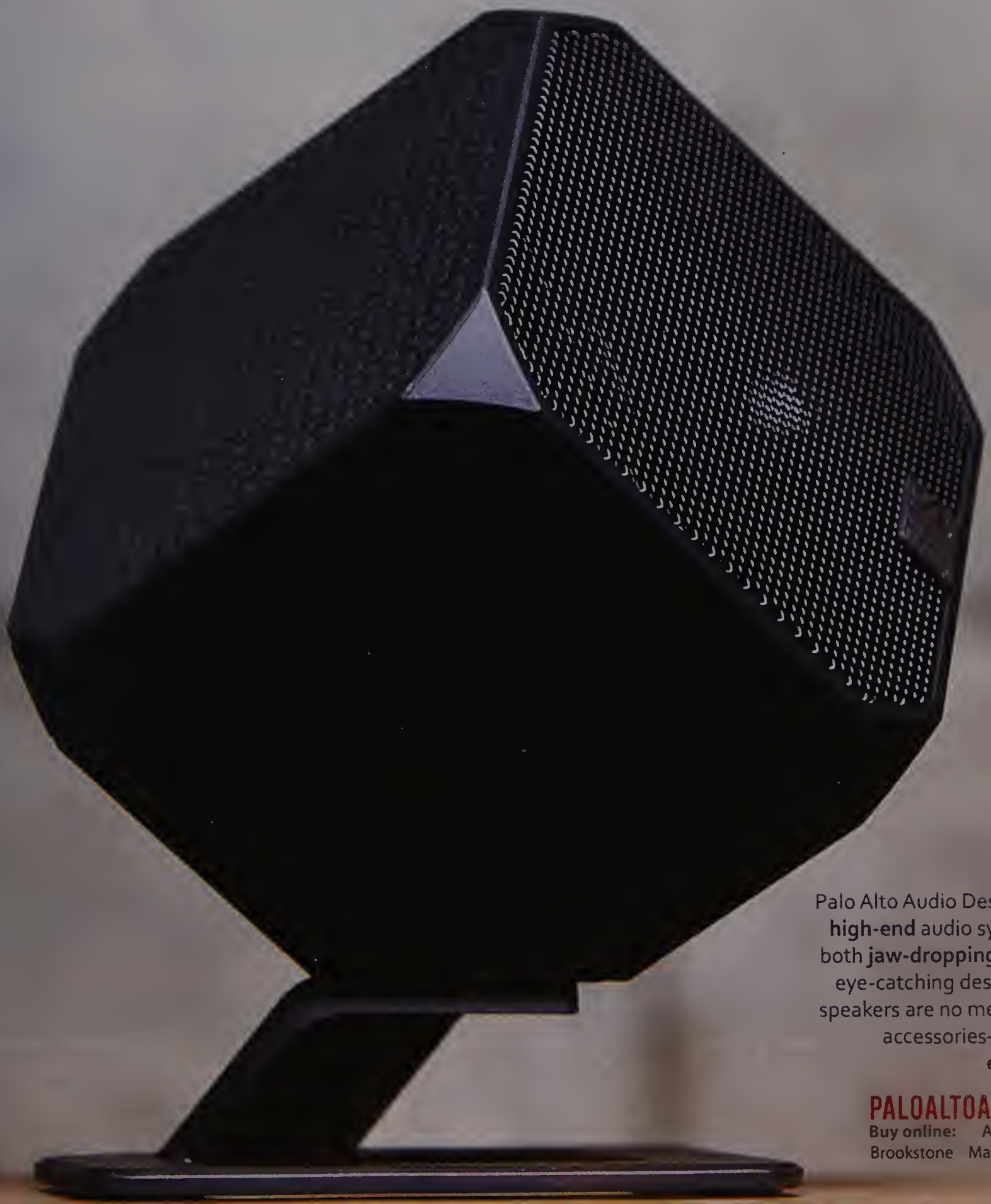
glass icon at the left of the search field.) You can then double-click the resulting file to run the search again, or you can press the spacebar to view it with Quick Look and see a live search with clickable links. You can also drag the favicon to the body of an email message or into a text field or document to immediately paste the link.

Finally, you can save a search-results page as a bookmark: Run a search and choose Bookmarks → Add Bookmark, or press ⌘-D. If you save it to the Bookmarks Bar, you can right-click on the bookmark and choose Copy to get the search URL.



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## View and Select Tabs with Two-Finger Pinch

If you have multiple tabs open in Safari, you can use a two-finger pinch to view them and switch among them. You can then navigate among the tabs using two-finger swipes to the right and left, by pressing the arrow keys on your keyboard, or by using a mouse or trackpad.

To select a tab and return to page view, make sure the tab you want is in the center of the Safari window, and then press Return, click your mouse or tap your trackpad, or pinch out. You can also close any tabs by

suggestions for the fragment you typed. That list may be really long. If you want to choose a website from your bookmarks or browsing history, for example, you might have to press the down arrow several times to get to that section of suggestions.

You can speed up keyboard navigation by holding down the  $\mathbb{W}$  key as you press the up-arrow or down-arrow key. Doing so will skip you quickly from section to section.

### View Recent Web Searches

In Safari's combined address and search field, there's no longer a drop-down menu showing your recent searches. However, there are still two ways you can view the search terms you've recently used.

The first method is to click in the address and search field, or press  $\mathbb{W}$ -L to highlight it, and press the spacebar; a menu showing your recent searches will



clicking the close button in their headers or pressing  $\mathbb{W}$ -W while in this view.

Some of these gestures can be a bit hard to get used to, but if you use this on iOS, you'll quickly grasp it on OS X. If you find the gesture hard to perform, press  $\mathbb{W}$ -Shift-backslash (\) to get the same interface.

appear. In the second method, look to see if the magnifying glass icon is visible at the left of the address and search field; if so, simply click on it.

### Get RSS Button Back

Safari 5 had an RSS button that appeared whenever you landed on a website with an RSS feed. That button was a great way to quickly subscribe to such feeds: If you clicked the button, your newsreader would open and you could add the feed as a subscription.

Safari 6 does not have that button, but developer Daniel Jalkut ([www.red-sweater.com](http://www.red-sweater.com)) has created a free Safari extension that replaces it. That new button appears on the toolbar; when you come to a page that offers an RSS or Atom feed, you click it. That opens the **feed://** link, which should automatically open your favorite newsreader. The button changes color when you visit a website that has an RSS feed, so you know when to click. The extension is available at [macworld.com/7934](http://macworld.com/7934).

## Quickly Rename Safari Bookmarks

You no longer need to right-click and

display a dialog box to be able to edit the name of a bookmark in Safari 6's Bookmarks Bar. Just click and hold on the bookmark; that will highlight its name, and you will be able to rename it in the Bookmarks Bar.

### My Bookmark



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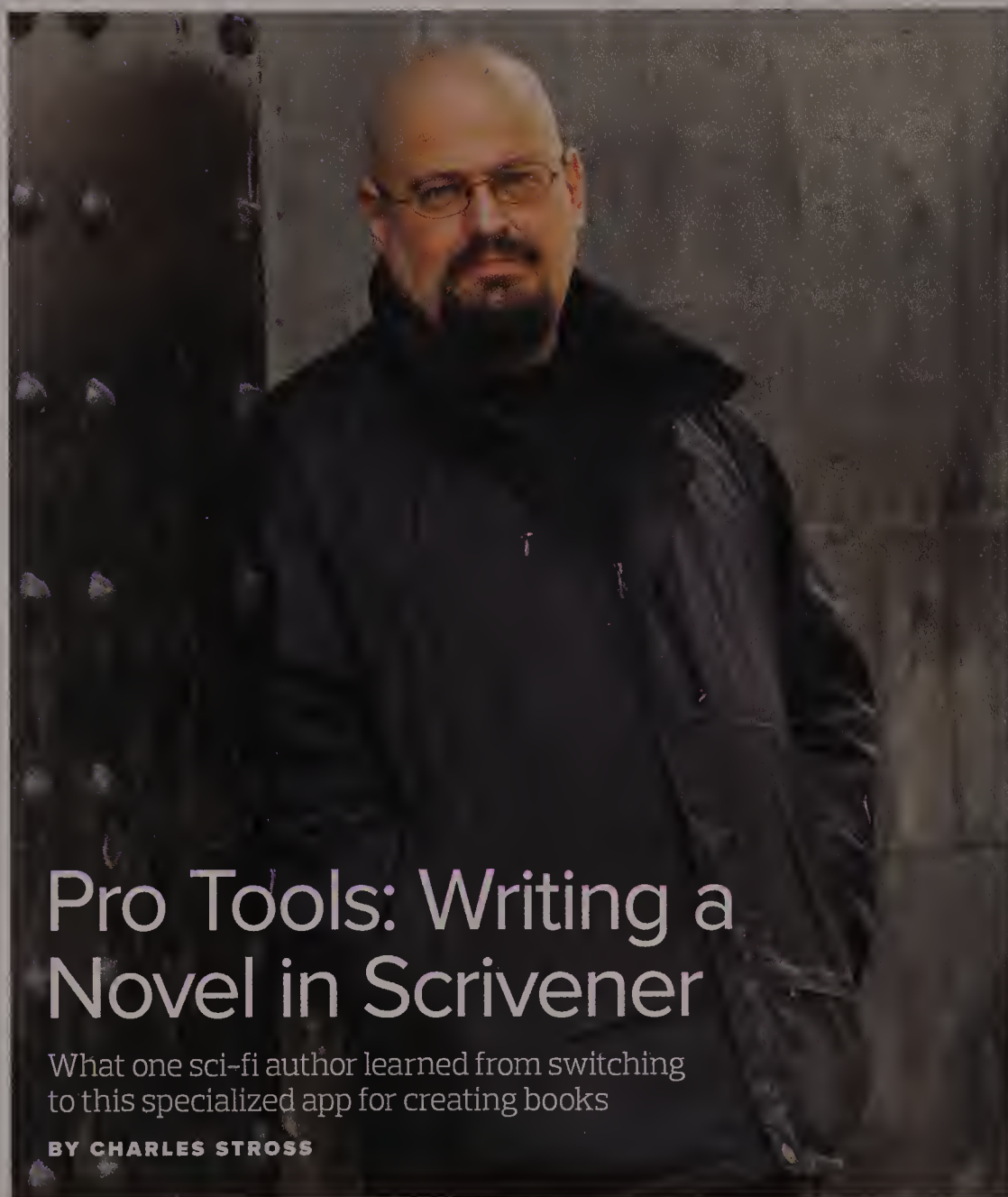
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# Working Mac

Tips, Tricks, and Tools to Make You and Your Mac More Productive



## Pro Tools: Writing a Novel in Scrivener

What one sci-fi author learned from switching to this specialized app for creating books

BY CHARLES STROSS

**S**crivener isn't a word processor; it's an integrated development environment for writing books (★★★★½; [macworld.com/a/1155903](http://macworld.com/a/1155903)). Modestly priced at \$45 and packed with features, this app from Literature & Latte helps you manage, tag, edit, and organize collections of information in Rich Text Format (RTF) files. I've

used it before in writing several novels where the plot got so gnarly and tangled up that I badly needed a tool to manage all my plot strands, an area in which Scrivener excels. But the novel I've just finished, *Neptune's Brood*, is the first one I've written from start to end in Scrivener. Here are some of the lessons I've learned from using Scrivener.

### It's Not the Only App You'll Need

Here's what Scrivener *can't* do for an author: It can't track changes. Many publishers have moved to an electronic document workflow during production. They've settled on Microsoft Word for manuscripts, simply because that's what most people have. Editors use Word's change-tracking feature to show their alterations, with comments taking the place of sticky notes. If you want to process edits in this brave new world, you need a word processor.

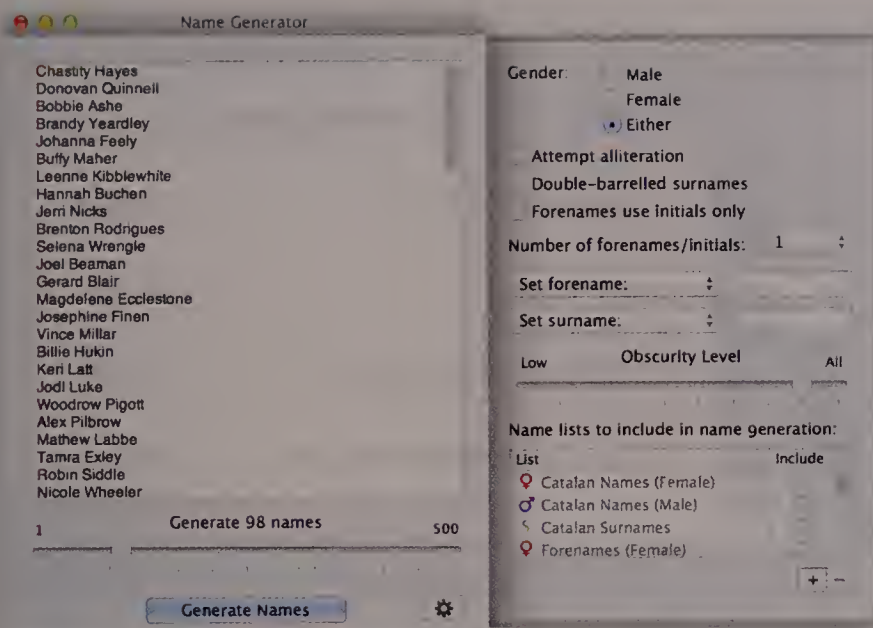
Scrivener, in contrast, is a creator's workbench, and as such it offers a panoply of tools to assist you in composition. Scrivener's view of a book is so different from Word's that there's no way to add Word-style change tracking to Scrivener. Luckily, plenty of other tools, such as the open-source LibreOffice ([www.libreoffice.org](http://www.libreoffice.org)), can provide that.

### Project-Based Organization

While word processors think in terms of *documents*, Scrivener works with *projects*. You start by creating a new project, just as you would if you were building an app using an integrated development environment like Xcode. A project is a hierarchical outline-based container for research notes (including PDFs, images, and Web pages, which you can slurp in as files or load by entering URLs), and small files, or *scrivenings*, that constitute the work in progress.

Scrivenings are in Apple's RTFD format, an RTF derivative that allows you to include sub-elements such as images, or folders containing other scrivenings. Each chapter is a folder, and scenes in that chapter are scrivenings. You can view the project as a collapsible, hierarchical outline or as editable text. You can edit scrivenings,





**Hidden Extras**  
Scrivener's handy little extras include a name generator for naming characters.

Scrivener can emit LaTeX, a markup language that prepares your doc for the TeX typesetting program. Given its support for footnotes and endnotes, Scrivener may be useful for preparing academic or scientific papers to submit in LaTeX.

## A Creator's Tool

Like Adobe Photoshop or Word, this program includes more features than you'll likely need. But if you want it to do something special, it probably can. A full-screen mode (⌘-Control-F) lets you write without distractions, and you can tag scenes with keywords and define the status of a scrivening (for example, To Do or Final Draft). These features are useful for some people, but it's not how I work.

Though it might not completely replace your word processor, Scrivener may relegate it to the job of editing and proofing rather than that of creating a book. The end result should be better-structured novels with fewer dangling plot threads and internal inconsistencies. But time will tell.

**Charles Stross** is a sci-fi novelist whose works have won multiple Hugo awards. His most recent books are *The Apocalypse Codex* (Ace Hardcover, 2012) and *The Rapture of the Nerds with Cory Doctorow* (Tor Books, 2012). In an earlier life, he was a software developer and computer journalist.

individually or by selecting a bunch to view as a continuous scroll of text—convenient if you want to edit, say, scenes 1, 2, 4, 6, and 8 but not 3, 5, and 7 in a chapter.

## An Abundance of Features

Scrivener has an introductory tutorial, a video, and a PDF manual, but discovering the program's many features is an ongoing process. Though you can treat Scrivener as a scene-based writing tool, it provides other, richer methods for looking at your data. A bulletin board view shows each scrivening as an index card, with metadata such as notes and keywords visible. Or you can display a scrivening as an outline.

Scrivener makes it easy to search, organize, and see your data in various ways. You can also restructure a hierarchical document, as long as it's broken into chapters with subsections.

One of Scrivener's most useful features is the Project → Show Project Targets command, which displays a floating window with progress bars (updated in real time) that show how close you are to the target word count for the entire document, as well as that day's goal. This is invaluable when you're slogging through a tough section, and it's not something Word can do.

Scrivener projects, which can get quite large, are structured in a folder hierarchy. You can package a project as a zip archive for later emailing and reimporting, as well as back it up to a private folder.

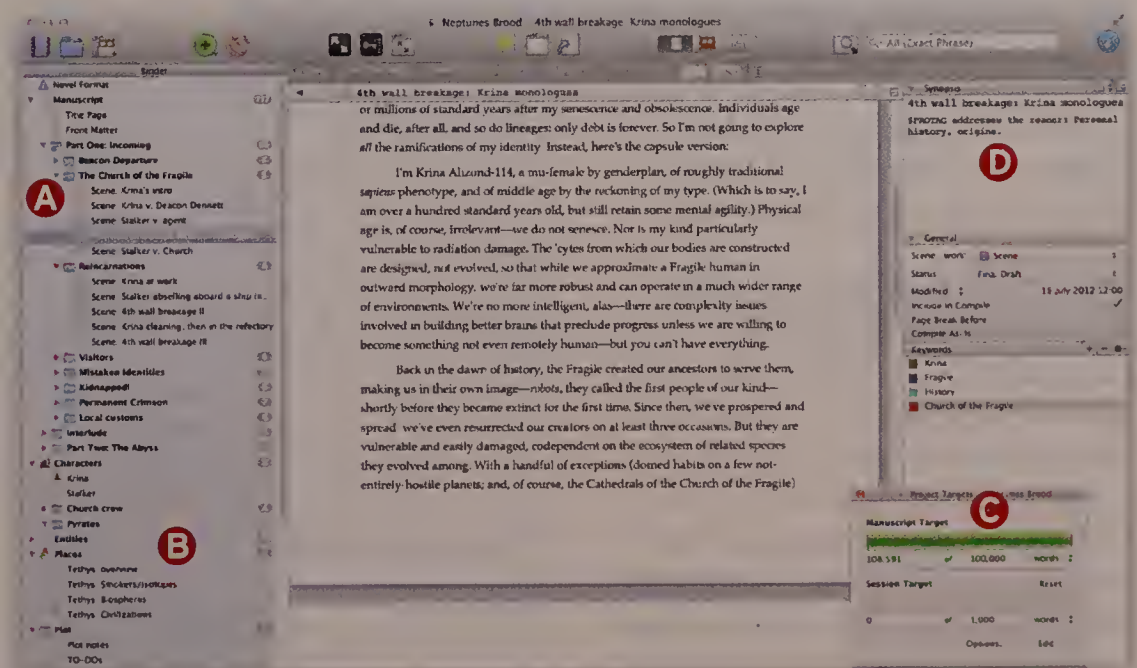
Scrivener also has an option to sync with an external folder. Though this feature isn't

as thorough as the Git or Subversion version-control systems, it lets you use a heavyweight content management system.

## Get Your Data Out

Scrivener can export individual scrivenings or files, but the main export tool is File → Compile. This filters assembled scrivenings according to your criteria, applies transformations (Scrivener understands MultiMark-Down, so you can write MMD text files), and generates a finished document in a target output format such as Word's .doc.

Scrivener can produce files in RTF, PDF, ODT, Final Draft, and ebook formats (ePub or Mobi). What's more, if you use MMD,



**Center of Creation** Scrivener's Binder lets you organize your story by chapter and scene (A) while keeping notes and research at hand (B). The Project Target window (C) is a great motivational tool for meeting deadlines. The bulletin board area (D) displays metadata and keywords.



# Ten Stellar Keyboard Shortcuts

A Mac expert picks his favorite timesavers

BY KIRK MCELHEARN

**A**mong computer users, there are those who like to move around using a mouse or trackpad, and those who prefer using the keyboard to navigate. I'm in the latter group. I like to rely on keyboard shortcuts as often as possible to save time and to keep my hands on my keyboard. Here are ten of my favorite shortcuts for the applications that I use the most frequently.

## 1. Select Safari's Address Field

Sometimes I copy a URL and want to paste it into Safari's address field. Instead of using the Tab key, or my mouse or trackpad, to select the field, I prefer using the ⌘-L keyboard shortcut. This highlights the text in the field, and I can then paste my URL and press Return to go to a Web page.

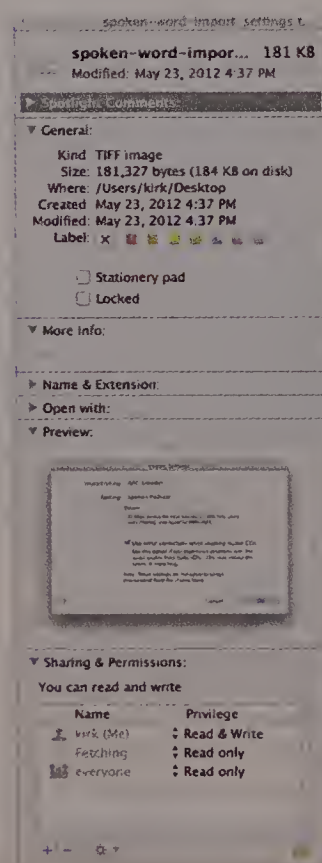
In Mountain Lion, you can press ⌘-Option-F to go to the address field, since it also serves as a search field.

## 2. Jump to What's Currently Playing in iTunes

I often have iTunes running while I work, and I like to browse my music library or the iTunes Store while I'm listening to music. But sometimes I want to come back to the music I'm playing and see where it's located, either in a playlist or in my music library. A little-known keyboard shortcut, ⌘-L, does just this: It highlights the currently playing track, and it also changes the view so you can see exactly where that highlighted track resides.

## 3. Paste and Match Style in Pages

I work with Apple's Pages from time to time, and I sometimes need to paste text that I've copied from another file or from a Web page into a Pages document. Since I use styles in Pages, when I paste text, it shows up with its *original* font and style applied, rather than adopting that of the surrounding text. If that's not what you want, you can use ⌘-Option-Shift-V, the Paste And Match Style command; the pasted text then assumes the style of the text where you've placed your cursor. This shortcut also works in Numbers and Keynote.



**New Point of View** The info window for multiple files (⌘-Option-I) changes as you move from one file to another. It's a quick way to view information about a number of files.

**See What You Hear** When you press the ⌘-L shortcut in iTunes, the program jumps to what you are currently playing and highlights that item.

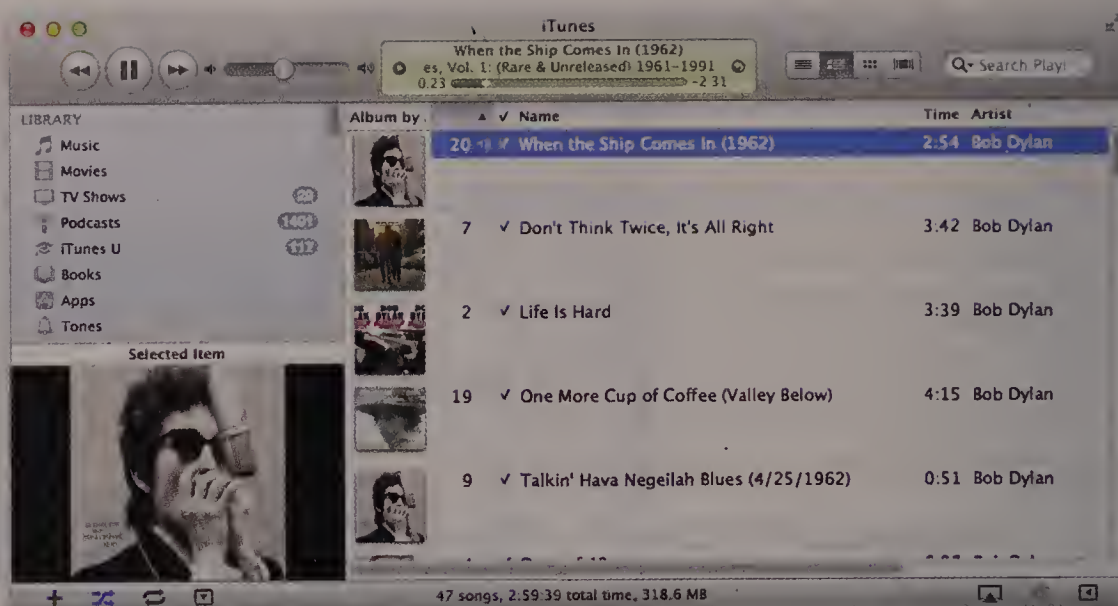
## 4. Mark Messages as Read or Unread in Mail

When I use Apple's Mail, I like to keep messages in my inbox that require action on my part marked as unread. This way their subjects appear in attention-grabbing bold text. I even have a special smart mailbox that groups unread emails. Sometimes I read an email but want to keep it in that smart mailbox. Selecting a message and pressing ⌘-Shift-U toggles its read status. If it's unread, that marks it as read; if it's read, that sets its status back to unread.

## 5. Quickly See Information for Multiple Files

I often need to check information for multiple files in the Finder. You probably know that if you select an item and press ⌘-I, you get an info window for that item, showing everything from its file size to what application will open it.

If you press ⌘-Option-I, you see the selected item's info window, but when you click on another item, the info window changes to show the new item's information. When this window is visible, you can also navigate through a folder using arrow keys to see information for all the items in that folder. This is a great way to view the details for a group of files, such as a folder full of photos.

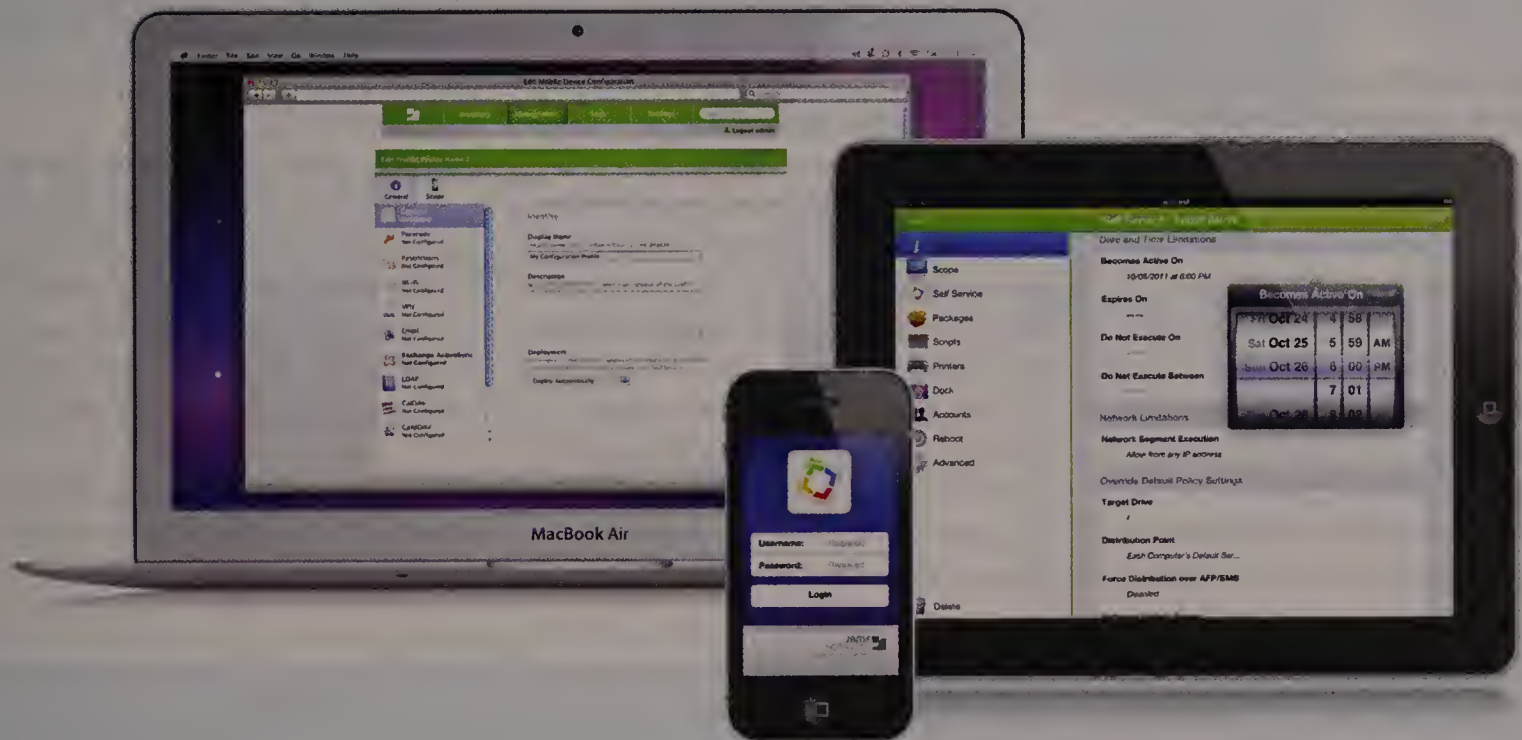




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**6. Open Files without Clicking** Double-clicking is so 20th century. While I sometimes double-click a file to open it, I often use a nifty keyboard shortcut to do the same thing. Select a file and press  $\text{⌘}$ -Down Arrow, and the file opens in its default application. This is most practical when you're navigating in a folder using the arrow keys to move around. (You can also press  $\text{⌘}$ -O to do the same thing.)

### **7. Tab in Either Direction through the Application Switcher**

Most people know the  $\text{⌘}$ -Tab shortcut. This displays OS X's Application Switcher above all your windows ([macworld.com/a/1159921](http://macworld.com/a/1159921)). Here you see the icons of all the currently open programs. When you keep holding down the  $\text{⌘}$  key, each time you press Tab, that selects the next app to the right—then you just let go of the keys to jump to that program.

Sometimes, though, I accidentally miss the program I want, and I need to

go back. Instead of pressing Tab to journey all the way around, I press the Shift key, then press Tab to cycle through the list in the opposite direction. (So you press  $\text{⌘}$ -Tab, keep holding  $\text{⌘}$  down, and add Shift—in other words, you're pressing  $\text{⌘}$ -Shift-Tab.)

### **8. Select Whole Words More Quickly**

When revising something I've written, I often select text, copy it, and paste it in a different location. A nifty shortcut makes this task easier when you want to select whole words. Place your cursor at the end of a word, then press the Shift and Option keys. Press the left-arrow key to select the entire word to the left of the cursor, or the right-arrow key to select the word to its right.

Note that this shortcut also treats punctuation as words, so a press of an arrow key—say, at the end of a sentence or a phrase—will select the period or comma as well as the word.

**Hop To It** OS X's Application Switcher lets you hop between open apps by pressing  $\text{⌘}$ -Tab (to go forward) or  $\text{⌘}$ -Shift-Tab (to go backward).

### **9. Hop Through Safari's Tabs**

When I use Safari, I use multiple tabs rather than separate windows. Sometimes I have a dozen tabs open at once, and I need to switch from one to another. What's the best way? Use the keyboard, of course. Just press  $\text{⌘}$ -Shift-Right Arrow to move one tab to the right, and  $\text{⌘}$ -Shift-Left Arrow to move left.

**10. Put Your Mac to Sleep** The shortcut I use at the end of most days is the one that puts my Mac to sleep:  $\text{⌘}$ -Option-Eject. If your Mac doesn't have an Eject button—say it's a laptop without an optical drive—press  $\text{⌘}$ -Option plus the power button. And so to bed.

Senior Contributor **Kirk McElhearn** writes about Macs, music, and more on his blog, *Kirkville* ([www.mcelhearn.com](http://www.mcelhearn.com)).

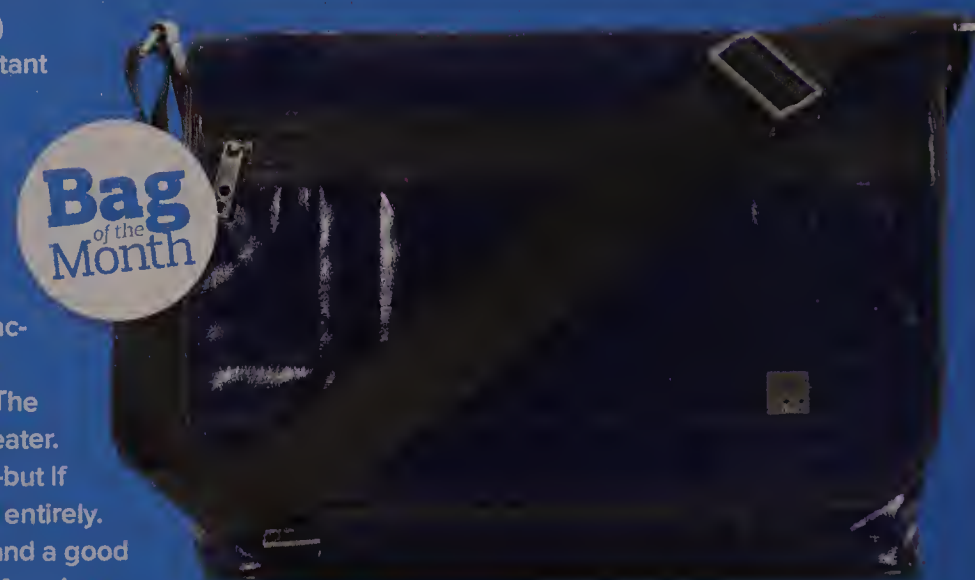
## Knomo Saxby 15" Laptop Messenger

The \$169 Saxby 15" Laptop Messenger ([www.knomobags.com](http://www.knomobags.com)) protects your computer with 15mm of high-density, shock-resistant foam. The water-resistant waxed-canvas exterior and sealed exterior zippers help keep out damaging liquids.

The protective flap folds up to reveal the bag's contents. The Saxby has two exterior zippered pockets—one for an iPad or a book, and another with pouches for your wallet and other small items—and a zippered compartment on the flap.

Inside, the semi-rigid, padded laptop sleeve fits a 15-inch MacBook Pro perfectly. There's another zippered pocket and three elastic sleeves for your iPhone, AC adapter, and power cable. The main compartment of the bag can fit a few magazines or a sweater. You'll be tempted to stuff the Saxby with everything you own—but if you fill all those pockets, the hook-and-loop straps won't close entirely.

The Saxby comes in navy, black, gray, and slate. It's stylish and a good fit for someone who doesn't need to carry too much stuff, but if you're a parent who hauls everything but the kitchen sink or a long-distance commuter in search of a catch-all bag, I would look elsewhere.—LAUREN CRABBE





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Introducing the reinvention of backup power — the APC Back-UPS: unsurpassed protection for iMac computers and more.

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### Trusted insurance for what matters most

Our units protect your iMac and much more, including MacBook<sup>®</sup> computers wired and wireless networks, DVRs, gaming consoles, and external storage devices. APC Back-UPS is the trusted insurance you need to stay up and running and protected from unpredictable power and energy waste!



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Keep your electronics up and your energy use down!

Back-UPS models are available with the features and runtime capacity that best suit your application, and many models have been designed with power-saving features to reduce costs.

### The High-performance Back-UPS Pro Series

High-performance Back-UPS Pro units deliver cost-cutting, energy-efficient features. Power-saving outlets automatically shut off power to unused devices when your computer is turned off or is in standby, eliminating wasteful electricity drains.

(BR700G shown above)

### The Energy-efficient ES 750G

The Back-UPS ES 750G boasts innovative power-saving outlets, which automatically shut off power to unused devices when your computer is turned off or is in standby, eliminating wasteful electricity drains.

- 10 Outlets
- 750 VA/450 Watts
- 70 Minutes Maximum Runtime
- Coax and Telephone/Network Surge Protection



### The Best-value ES 550G

The Back-UPS ES 550 uses an ultra-efficient design that consumes less power during normal operation than any other battery backup in its class, saving you money on your electricity bill.

- 8 Outlets
- 550 VA/330 Watts
- 43 minutes maximum runtime
- Telephone Surge Protection



# APC<sup>™</sup>

by Schneider Electric



# Reviews

Hardware and Software for All Your Business Needs



## Hardware

### Apparent Doxie Go

★★★★; \$199; Apparent; [www.getdoxie.com](http://www.getdoxie.com)

Apparent's Doxie Go, a slick, battery-powered portable document scanner, offers a solution to perennial paper clutter. Capable of computer-free scanning, this rectangular glossy-white and matte-black plastic box is about 10 by 2 inches and weighs just under a pound. Apparent also bundles a calibration card, cleaning tool, mini-USB cable, and carrying bag. A slot on the long side of the scanner accepts paper ranging in size from business cards to 8.5 by 15 inches. To scan, you feed in one piece of paper at a time. Each scan takes about 8 seconds. The built-in battery lasts for about 100 scans and recharges in an hour or so via USB cable. Doxie saves images to its 500MB internal storage, or to an SD card or USB drive. The default resolution is 300 dpi; a quick press of the power button switches to 600 dpi for more-detailed scans. Getting paper to feed straight and evenly can be hard, especially with thin paper and small items; an adjustable document guide offers some help. The Doxie Go hardware crops images, and the software performs additional cropping

and straightening with decent results, but manual tweaking improves scans. At \$199, the scanner's convenience and portability come at a premium. But just as the best camera is the one you have with you, the best scanner is the one you will actually use—and the Doxie Go is eminently usable.



### Lexmark C748de

★★★★; \$1199; Lexmark; [www.lexmark.com](http://www.lexmark.com)

The Lexmark C748de is among the fastest color laser printers we've tested, and its output is second to none. The unit's 1200-by-1200-dpi print engine resolution plays a major role in achieving its high-quality prints, images comparable to those from an inkjet, and sharp black text. Toner costs are reasonable, though cartridges are available only in high-volume sizes, as befits a corporate printer with a capacity that's expandable to 4300 pages. In its base configuration, the C748de offers an internal 550-sheet tray and a 100-sheet multipurpose feed. The C748de is fast by any standard, and finished second only to the Dell 5130cdn in our tests (★★★★; [macworld.com/a/1147120](http://macworld.com/a/1147120)). It prints monochrome pages at 18.7 ppm on a PC and

17.9 ppm on a Mac. On plain-text documents, the output rate is about 27 ppm; 4-by-6-inch photos print at 3.4 ppm, and full-page photos at 1.8 ppm. Though it's pricier than most of the color laser printers we've reviewed, the Lexmark C748de delivers better-quality output and uses less-expensive toner. If you print a lot—and we mean a lot—it will save you money in the long run. Just avoid Lexmark's expensive memory upgrades; opt for standard DDR2 memory instead.

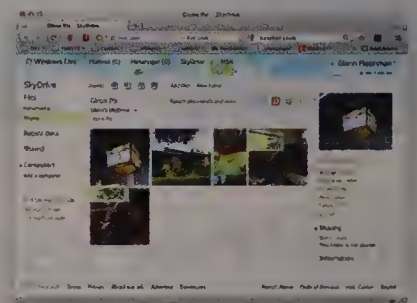


### WiebeTech UltraDock 5

★★★★; \$249; WiebeTech; [www.wiebetech.com](http://www.wiebetech.com)

The WiebeTech UltraDock 5 is a multi-interface dock with a number of different connections, enabling users to connect unenclosed drive mechanisms to a Mac. The UltraDock 5 has eSATA, FireWire 400, FireWire 800, and USB 3.0 (compatible with USB 2.0) connectors. Its native SATA and IDE connections make it compatible with most drives on the market. You can attach 2.5-inch SATA and 3.5-inch IDE and SATA drives to the UltraDock, and WiebeTech sells adapters for 2.5-inch IDE drives, 1.8-inch Toshiba drives, and more. At 4.3 by 3.0 by 0.87 inches and

encased in durable aluminum, the device is highly portable. The UltraDock offers a compact solution for accessing almost any drive and connecting to your Mac via many interfaces. It's ideal for IT workers who need to troubleshoot or deploy hard drives for multiple users.



## Software

### Microsoft SkyDrive

★★★★; 7GB of storage, free; Microsoft; [www.microsoft.com](http://www.microsoft.com)

Microsoft has thoroughly revamped SkyDrive, its cloud-based file storage service. SkyDrive provides desktop software for Windows and Mac OS X (10.7 only) and mobile software for Windows Phone and iOS. It includes 7GB of free storage, and a Web app provides access to your account, with drag-and-drop uploads. Desktop uploads and syncs are speedy and hassle free. However, SkyDrive falls significantly behind its main competitors, Dropbox and Google Drive, in Finder integration and sharing options. Its Web interface does have standout features for previewing and editing. You can directly edit and create files online in Excel, Word, OneNote, and PowerPoint



formats. The mobile app offers previews of iOS-supported file types and can generate and send links for items and folders, and upload photos and videos. Though SkyDrive is much improved, it's hard to find a compelling reason to choose it over other options.




## Firefox 14

★★★★; free; Mozilla; [www.mozilla.org](http://www.mozilla.org)

Like other recent updates to Mozilla's Web browser, Firefox 14 offers just a handful of new features. Most notably, it submits all Google searches securely via HTTPS to prevent third parties from seeing what you're searching for. Firefox now also fully embraces Lion's Full Screen mode and allows you to tell the browser not to load Flash and other plug-ins without your authorization. And it shows a grid of previously visited pages when you open a new tab, reminiscent of Safari's Top Sites, but it doesn't display page previews in that view. Mozilla has bulked up support for CSS transformations and WebGL 3D graphics, and the browser offers a superior suite of Web development tools. Though version 14 feels fast and fluid, benchmark tests place it in the middle of the pack. Firefox occupies a pleasant middle ground between Safari's slick design and Chrome's swiftness. Anyone who's not enamored of either of those browsers should give it a try.

# Top Products

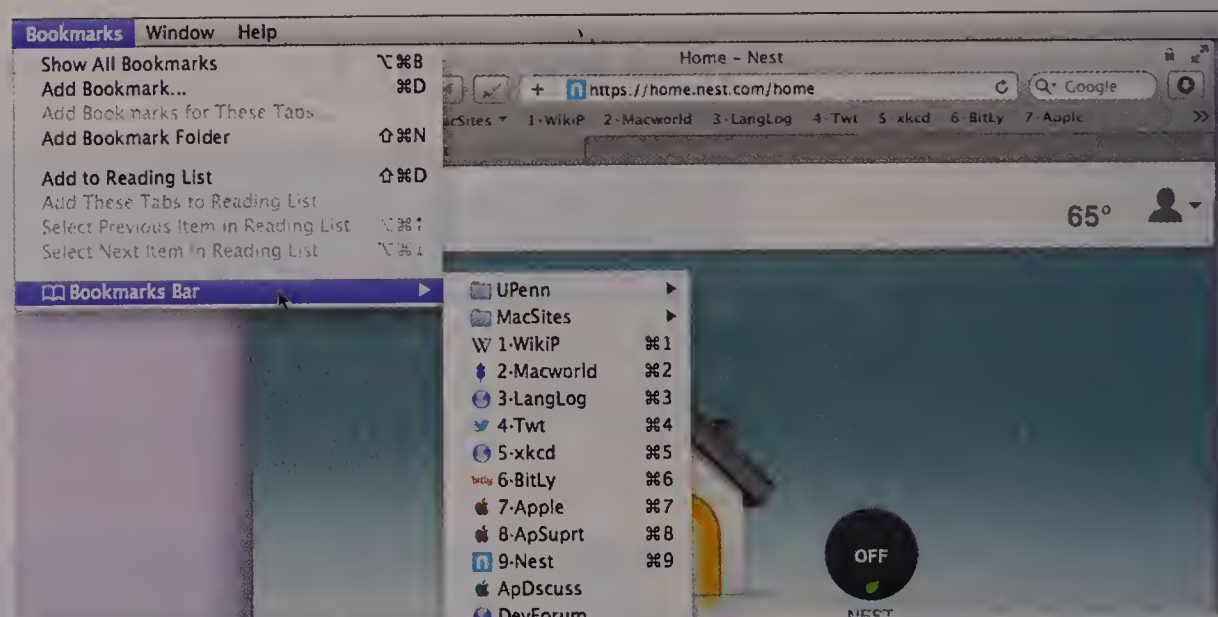
YOUR GUIDE TO THE BEST  
HARDWARE WE'VE TESTED

 <b>HARD DRIVES</b> Desktop				
PRODUCT	RATING	PRICE <sup>1</sup>	TYPE	FIND CODE <sup>2</sup>
<b>G-RAID with Thunderbolt</b> <a href="http://www.g-technology.com">www.g-technology.com</a>	★★★★	\$1100 (8TB)	quad interface	<b>7856</b>
<b>LaCie d2 Quadra USB 3.0</b> (pictured) <a href="http://www.lacie.com">www.lacie.com</a>	★★★★½	\$250 (2TB)	USB 3.0	<b>7855</b>
<b>SoloPro</b> <a href="http://www.iosafe.com">www.iosafe.com</a>	★★★★	\$300 (1TB)	USB 2.0 and 3.0	<b>7136</b>
 <b>HARD DRIVES</b> Portable				
PRODUCT	RATING	PRICE <sup>1</sup>	TYPE	FIND CODE <sup>2</sup>
<b>Hitachi Touro Mobile Pro</b> <a href="http://www.touropro.com">www.touropro.com</a>	★★★★	\$104 (750GB)	single interface	<b>7854</b>
<b>ioSafe Rugged Portable SSD</b> (pictured) <a href="http://www.iosafe.com">www.iosafe.com</a>	★★★★½	\$460 (120GB)	single interface	<b>7559</b>
<b>My Passport Essential</b> <a href="http://www.wdc.com">www.wdc.com</a>	★★★★	\$74 (500GB)	dual interface	<b>7521</b>
 <b>INPUT DEVICES</b> Keyboards, Mice, and More				
PRODUCT	RATING	PRICE <sup>1</sup>	TYPE	FIND CODE <sup>2</sup>
<b>Intuos5 Pen Tablet</b> <a href="http://intuos.wacom.com">intuos.wacom.com</a>	★★★★½	\$329	pen tablet	<b>7695</b>
<b>Magic Trackpad</b> <a href="http://www.apple.com">www.apple.com</a>	★★★★	\$65	trackpad	<b>6436</b>
<b>Wireless Solar Keyboard K750</b> (pictured) <a href="http://www.logitech.com">www.logitech.com</a>	★★★★	\$60	keyboard	<b>7560</b>
 <b>PRINTERS</b> Laser				
PRODUCT	RATING	PRICE <sup>1</sup>	TYPE	FIND CODE <sup>2</sup>
<b>5130cdn</b> (pictured) <a href="http://www.dell.com">www.dell.com</a>	★★★★½	\$1245	LED, color	<b>6009</b>
<b>C544DN</b> <a href="http://www.lexmark.com">www.lexmark.com</a>	★★★★½	\$308	LED, color	<b>4356</b>
<b>Color LaserJet CP2025dn</b> <a href="http://www.hp.com">www.hp.com</a>	★★★★	\$453	LED, color	<b>4823</b>
 <b>PRINTERS</b> Multifunction				
PRODUCT	RATING	PRICE <sup>1</sup>	TYPE	FIND CODE <sup>2</sup>
<b>OfficeEdge Pro5500</b> (pictured) <a href="http://www.lexmark.com">www.lexmark.com</a>	★★★★	\$240	inkjet	<b>7694</b>
<b>Pixma MG6120</b> <a href="http://www.usa.canon.com">www.usa.canon.com</a>	★★★★	\$119	inkjet	<b>7254</b>
<b>WorkForce Pro WP-4540 All-In-One</b> <a href="http://www.epson.com">www.epson.com</a>	★★★★	\$280	inkjet	<b>7857</b>

<sup>1</sup> All prices are the best current prices taken from a PriceGrabber survey of retailers at press time. <sup>2</sup> In a browser's address field, typing [find](http://find.macworld.com/) code after [macworld.com/](http://macworld.com/) takes you to a product's review or overview

# Better Browsing With Bookmarks

BY SHARON ZARDETTO



**T**he biggest timesaving feature you'll find in any Web browser is the ability to bookmark sites, providing a quick route back to places you visit often. These are my favorite bookmark tricks for Apple's Safari and Mozilla's Firefox.

## Bookmark Basics

Both browsers offer multiple ways to create bookmarks. Use the Bookmarks → Add Bookmark (Safari) or Bookmarks → Bookmark This Page (Firefox) command. You can also drag the favicon—the little icon in front of the page's URL—directly onto the bookmarks bar. Or drag a link on a page directly into the bookmarks bar.

If the bookmarks bar isn't at the top of your browser window, select View → Show Bookmarks Bar (Safari) or View → Toolbars → Bookmarks Toolbar (Firefox).

## Use Safari's Bookmark Shortcuts

Select Bookmarks → Bookmarks Bar in Safari to see a submenu listing everything on your bookmarks bar. This menu shows Safari's keyboard commands for the first nine items (excluding folders), with easy-to-remember shortcuts of ⌘-1 to ⌘-9.

You can see at a glance what keys to press for the first few items in the bookmarks bar. Beyond that, you might have to stop and count—and that's not much of a shortcut.

Instead, incorporate the shortcut number into the bookmark's name. From the Bookmarks window (Bookmarks → Show All Bookmarks), click Bookmarks

Bar in the sidebar. Click one of the first nine bookmarks to select it, and then click it again to make its name editable (don't double-click; that opens the page). Rename the bookmark with a leading number so you'll know at a glance which keyboard command will trigger it.

In Mountain Lion's Safari 6, you can rename the bookmark right in the bookmarks bar: Click and hold on the bookmark's name to highlight it for editing, and then type in the new name.

## Access Bookmarks with Firefox's Tags

When you start typing in a browser's location bar—or, as Mozilla calls it, the "Awesome Bar"—the app can save you time by suggesting matches from your browsing history. In other words, type **mac**, and **http://www.macworld.com** autofills the field. But Firefox takes this timesaver a bit further by also listing results from your *tagged* bookmarks.

A tag is a word or phrase that Firefox lets you attach to an item—in this case, a bookmark—so you can search by that tag rather than by part of the URL or the bookmark name. Apply the same tag to

**Name by Number** You'll find it easier to remember Safari's shortcuts for your first nine bookmarks if you incorporate the bookmark's number into its name.

various pages, and you can list all of them using that tag rather than individually according to their names or content.

You can add tags when you create the bookmark or retroactively. The Bookmark This Page command lets you name the page, assign it to a bookmark folder, and add tags (separate multiple words and phrases with commas). Say you're building a new deck: Bookmark pages about building materials, lighting, and contractors, and tag them with the words **deck** and **home projects**.

To apply tags to bookmarks, go to the Bookmarks window (Bookmark → Show All Bookmarks), select a bookmark's parent folder in the sidebar, click the bookmark in the list, and add tags to the Tags field at the bottom of the window.

Type a tag in the location bar to see a drop-down menu listing everything associated with that tag, as well as anything in your browsing history that contains that word or phrase.

Or go to the Bookmarks window and click a tag in the sidebar to see the pages with that tag. If you misspelled a tag when you assigned it, click the tag and edit it in the Name field at the bottom of the window.

**Say you're building a new deck: You can bookmark and tag pages about building materials, lighting, and contractors.**

Mac author **Sharon Zardetto** would like a Safari-Firefox-Chrome mashup that includes the special features from each browser.





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# Playlist

Everything You Need to Know about iPods, iTunes, and Mac-based Entertainment

## Ask the iTunes Guy

All about video, audio conversion, and more

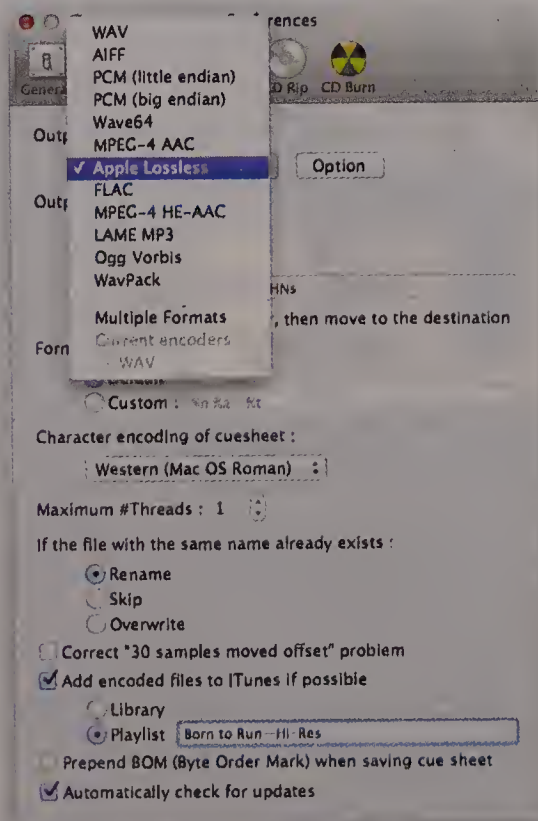
BY KIRK MCELHEARN

### Q&A

In this installment of *Ask the iTunes Guy*, I answer questions about video resolution, audio conversion, free iTunes content, and more.

**Q: I buy high-resolution (88.2kHz/24-bit, say) files. How do I create standard-resolution (44.1kHz/16-bit) copies of these files for my portable devices to use within the same iTunes library?**

**A:** First, you need to convert the files to a format that is compatible with iPods and



**No-Loss Conversion** XLD's preferences allow you to choose file conversion formats and add the resulting files to iTunes playlists.



**XLD's preferences let you add converted files to a new playlist of your choosing, to incorporate playlist building into the conversion process.**

iOS devices. I recommend doing this with tmkk's free X Lossless Decoder (XLD)—the most versatile tool for converting audio files I've seen ([macworld.com/7290](http://macworld.com/7290)). You can convert high-resolution files to the format of your choice (Apple Lossless, AAC, or MP3) and sync those files to your iOS device. XLD converts files across many formats, so you can use it for just about all of your conversions.

To distinguish the new files from the high-res files, you can either create a "High-Res" genre (assuming you have fewer high-resolution files than standard files) or name the albums in a way that distinguishes them—for example, *Born to Run* and *Born to Run—High-Res*.

Next, you'll need to create playlists to segregate the different types of files and to sync your content to your iOS devices. XLD's preferences let you add converted files to a new playlist of your choosing, so you can easily incorporate playlist building into your conversion process.

**Q: I import all my music into iTunes in Apple Lossless format. Would there be a difference in quality if I were to convert an Apple Lossless file to AAC as opposed to importing a CD directly as AAC files?**

**A:** No. A lossless file, by definition, contains the same data as the original CD. In fact, many people rip CDs in lossless format to keep archival copies, and then convert the files to AAC or MP3 to use them with portable devices.

**Q: I want to replace my MP3 and AAC-encoded CD rips with Apple Lossless imports. But these tracks all have custom album art, lyrics, and genres and additional tags in the Comments field. How can I import the new audio files and keep all the non-audio metadata?**

**A:** You have two options. First, if you re-rip a CD, and the Album, Artist, Genre, and Name tags are the same as what's in your iTunes library, iTunes will offer to replace the current files with the new rips. When it does so, iTunes keeps all of the additional metadata.

But this method doesn't always work, even if the tags all match. So instead, I use Doug Adams's Copy Tag Info Tracks to Tracks AppleScript (payment requested; [macworld.com/7917](http://macworld.com/7917)). To use this script, select the first group of tracks—the ones with your custom metadata—and copy the data. Next, select the newly ripped





tracks and paste the data onto them. You can delete the older tracks after confirming that everything got copied correctly.

**Q: If I reconvert all of my CDs to Apple Lossless, can I discard the compressed versions or do I need to keep those so I can play the songs on my iPhone, iPad, and Apple TV? Do iOS devices and Apple TV play lossless files?**

**A:** Apple's current iPods and iOS devices can play Apple Lossless format—although you might not want to do so because of the amount of space files in that format take up (especially on space-cramped devices like the 2GB iPod shuffle).

In a recent Mac OS X Hints blog post, I discussed using iTunes' autoconvert feature when syncing to iOS devices ([macworld.com/7918](http://macworld.com/7918)). So you can fill your iTunes library with lossless files—to listen to on your computer connected to external speakers or on your stereo system via your Apple TV, for example—and let iTunes convert them on the fly when you sync, so you can store more music on your iPod or iPhone.

**Q: I've set up iTunes on all of the computers in my home, and they share a music library. But I'm not sure how to stream the same music to the computers in different rooms. Is there a way to do this without going to each system and starting play manually?**

**A:** Unfortunately, you can't stream music from one computer playing it in iTunes to other computers. You can, however, use

**Stream It** Choose one or several AirPlay-compatible devices from this window.

AirPlay in iTunes to stream music to different devices. You can stream to an Apple TV, to an AirPort Express with connected speakers, or to some third-party AirPlay-compatible devices.

To set up streaming, click the AirPlay icon at the bottom right of the iTunes window.

Choose Multiple Speakers from the bottom of the list. Check the box next to each AirPlay-compatible device you want to use, and then close the window. When you play from iTunes on the computer where you have set up AirPlay, it will stream music to all the AirPlay-compatible devices you have selected.

Another option for streaming audio to multiple locations is Rogue Amoeba's \$25 Airfoil ([macworld.com/a/1142803](http://macworld.com/a/1142803)).

**Q: Is there any place in the iTunes Store where I can look over all of the free content at the same time?**

**A:** You can find a portion of it via a link on the main page of the iTunes Store in the Quick Links section. Click Free on iTunes to see a list of some of the currently free content on the iTunes Store ([macworld.com/7919](http://macworld.com/7919)). This list isn't exhaustive, and it doesn't go back very far, but if you check it regularly, you'll be able to see what free content Apple has added recently.

Note that the Free on iTunes list doesn't include all of the free apps on the iTunes Store. There are tens of thousands of them, and you wouldn't want to wade through a list

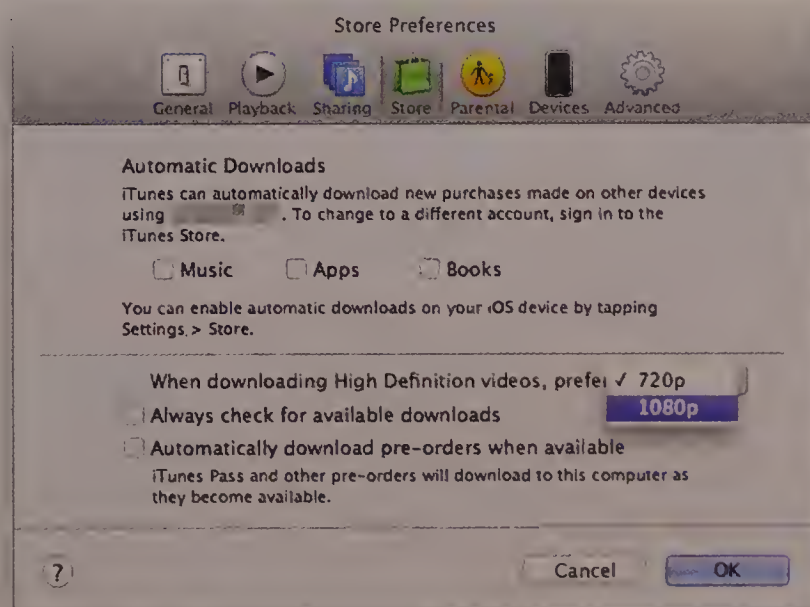
that long. It looks like the free apps in this list are new, recently updated, or ones that Apple wants to highlight.

**Q: Some of the shows in TV series in the iTunes Store say "HD: Includes 720p, 1080p." How do I choose which version to download?**

**A:** Some shows in HD give you those two options. You may want 1080p shows if you're going to watch them on your television via the third-generation Apple TV ([macworld.com/a/1165882](http://macworld.com/a/1165882)). But if you have an older Apple TV or you want to sync videos to a non-Retina iPad, say, you may want to get the 720p versions.

You can choose which versions to download in iTunes' preferences. Select iTunes → Preferences, and then click the Store icon. Then choose one of the two options from the When Downloading High Definition Videos, Prefer pop-up menu. You may want to set the default at 1080p and only change it if you download something new specifically for a device that can't handle that resolution. But if you sync to a device that can handle only 720p—or if you don't want to use the extra space for 1080p—set it to 720p.

Senior Contributor **Kirk McElhearn** ([www.mcelhearn.com](http://www.mcelhearn.com)) is the author of *Take Control of iTunes 10: The FAQ, second edition* (TidBits Publishing, 2012). Have questions? Send them to [itunesguy@macworld.com](mailto:itunesguy@macworld.com).



**Hereby Resolved** This iTunes Store option lets you choose whether to download video files from the store at 720p or 1080p resolution.



## Hulu Plus Comes to the Apple TV

BY DAN MOREN

**T**his summer, Apple added support for Hulu Plus to its Apple TV set-top box, bringing access to ad-supported TV episodes and movies for paid subscribers of that service (\$8 a month; [www.hulu.com/plus](http://www.hulu.com/plus)).

Hulu Plus subscribers get access to the service's content; new users can sign up

for a free one-week trial or subscribe via their iTunes account, as with Netflix ([macworld.com/7920](http://macworld.com/7920)). After logging in, you get access to your favorites and your queue, as well as a catalog of TV episodes, movies, and popular clips.

The top menu of the Apple TV interface for Hulu provides access to Popular and Recommend items, Recently Watched videos, TV, Movies, Trailers, and Search. Videos are ad supported, but you can skip around, pause, and play as usual. In addition, you can resume a video from where you left off, even across platforms.

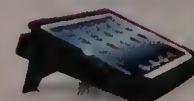
Unfortunately, Hulu's licensing agreements from its content providers prohibit site visitors from viewing a number of shows on the Apple TV. In addition, many shows reach Hulu on a time-delay window of as much as 30 days after airing on TV.

If the Hulu Plus channel hasn't yet appeared on your Apple TV, you may need to restart the device by choosing Settings → General → Restart.

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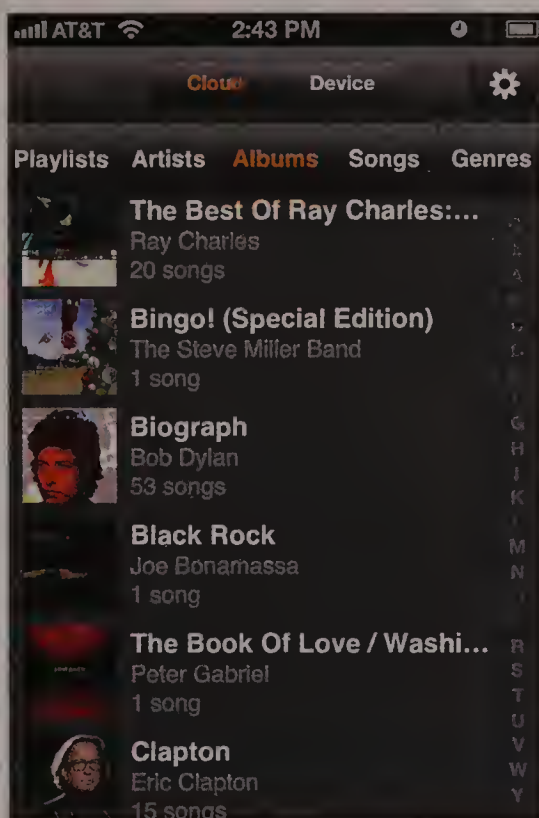
# Amazon Takes On iTunes Match

BY JONATHAN SEFF

**W**ith sweeping changes to its Cloud Player service, Amazon has taken aim at Apple's iTunes Match.

Cloud Player now provides free access to all past and future Amazon MP3 purchases (similar to Apple's iTunes in the Cloud feature). Amazon can also scan your iTunes and Windows Media Player libraries and match the songs on your Mac or Windows PC with those in Amazon's 20-million-song catalog.

Matched songs don't require uploading, which saves time and bandwidth when you



move a music collection in the cloud, and the service upgrades matched tracks to 256-kbps MP3 files. All of this follows

licensing agreements reached with Sony Music Entertainment, EMI Music, Universal Music Group, Warner Music Group, and more than 150 independent distributors, aggregators, and music publishers.

Apple's iTunes Match service works the same way (albeit with AAC files instead of MP3s). But iTunes Match costs \$25 a year and caps uploads and matches at 25,000 tracks (plus iTunes Store purchases).

In contrast, Amazon's Cloud Player Free version stores all your Amazon MP3 purchases and gives you space for 250 tracks; and its \$25-a-year Cloud Player Premium offers room for 250,000 tracks.

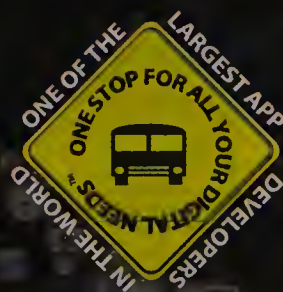
An Amazon help page discusses subscription plans and how Cloud Drive and Cloud Player differ ([macworld.com/7921](http://macworld.com/7921)).

Cloud Player works on Android devices (including the Kindle Fire), the iPhone, the iPod touch, and via your computer's Web browser. Amazon also intends to bring Cloud Player support to Roku streaming hardware ([macworld.com/7922](http://macworld.com/7922)).

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# Reviews

Home Entertainment Hardware, Software, and Accessories



## Hardware






### Audioengine A5+ Premium Powered Speakers

★★★★ | \$399, black or white; \$469, bamboo; Audioengine; [audioengineusa.com](http://audioengineusa.com)

At 10.8 inches tall, 7 inches wide, and 7.8 inches deep, Audioengine's A5+ powered bookshelf speakers are a little beefy for a typical computer desk, though you can use them that way. They come in white, black, or bamboo finish,

with the eco-friendly bamboo model priced at \$469 and the black or white versions at \$399. The speakers' bottoms are padded and have a screw insert for attaching to stands. The A5+'s audio sounded quite good, with an emphasis on bass and lower-midrange frequencies. For their part, the higher frequencies were clearly present, though not entirely shimmery. Your ears are of course the best judge of what brings you sonic happiness. Fortunately, Audioengine offers a 30-day trial period. Order a pair and give them a listen; if you don't care for what you hear, you can return them for a full refund. My guess is that you'll want to keep them.

## iPods: Current Lineup

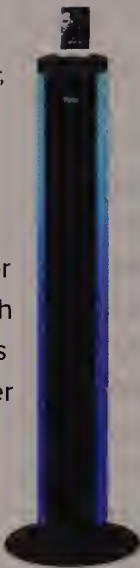
PRODUCT	SPECS	RATING	PRICE <sup>1</sup>	DISPLAY	PERFORMANCE	FIND CODE <sup>2</sup>
 iPod Classic	160GB	★★★★	\$249	2.5-inch color	36 hours of music playback; 6 hours of video playback	5262
 iPod Touch 4th Generation	16GB	★★★★½	\$199	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6553
	32GB	★★★★½	\$249	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6554
 iPod Touch 5th Generation	32GB	n/a	\$299	4-inch color (Retina)	40 hours of music playback; 8 hours of video playback	7967
	64GB	n/a	\$399	4-inch color (Retina)	40 hours of music playback; 8 hours of video playback	7968
 iPod Nano	16GB	n/a	\$149	2.5-inch color	30 hours of music playback; 3.5 hours of video playback	7969
 iPod Shuffle	2GB	★★★★	\$49	none	15 hours of music playback	6550

n/a = not available. <sup>1</sup> All prices are Apple's prices. <sup>2</sup> In a browser's address field, typing a find code after [macworld.com/](http://macworld.com/) takes you to a product's review or overview.

## iHome iP76

★★★★ | \$200; SDI Technologies; [www.ihomeaudio.com](http://www.ihomeaudio.com)

iHome's \$200 iP76 LED Color Changing Tower Stereo Speaker System with Bluetooth dock for iPhone and iPod is a tall, glowing speaker dock, with lighted panels up and down its left and right sides. It has a 10.1-inch-diameter circular base and is just over 3 feet tall, yet it weighs scarcely more than 8 pounds. At the top of the unit sits a dock cradle for your iPhone or iPod, and five circular buttons for controlling the iP76's lighting features: Slow Color Change, Solid Color, Pulse to Music, Strobe Light, and Dimmable Lamp. The iP76's narrow design doesn't lend itself to stereo separation, but I liked its bass presence, its maximum volume, and its balanced and well-defined midrange. If you're attracted to the iP76's good sound and fun lighting elements, the unit should please you overall, despite its undeniably plasticky feel.



improve the audio for any sound that your Mac can generate; overall, though, its performance is merely OK. The software itself is lacking, in part because it requires you to install a free (but somewhat wayward) third-party utility called Soundflower to reroute your computer's audio. To my ear, the Audio Essentials app did improve the sound quality of songs from my iTunes music library when I listened to them on my Mac's built-in speakers: Upper bass was more audible, and the music in general sounded punchier and less muffled than when played through my laptop's unmodified speakers. I recommend downloading the free version to see whether you like Audio Essential's effects. If you do, you may also appreciate the finer-grained controls offered by the full version. But be warned that the app leaves plenty of room for improvement. For starters, a significant overhaul of the software, with savable presets and a more Mac-like interface, would be music to my ears.

## Software

### SRS Labs Audio Essentials

★★★ | \$30; SRS Labs; [www.srslabs.com](http://www.srslabs.com)

SRS Labs' Audio Essentials software, originally for Windows PCs and now newly available for the Mac, looks to





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- Caleb Denison, Digital Trends



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# Hot Stuff

What We're Raving about This Month

## Denon Cocoon

The \$600 Cocoon from Denon is a sleek iOS-dock speaker system that doesn't need to be docked to play your music. Its AirPlay compatibility makes it available to stream music wirelessly from any of your iOS devices or computers. It also comes with built-in Internet radio, so you can listen to music even when your phone is tucked away. If you find the full-size Cocoon attractive but a bit much for your needs, you can opt for the \$500 Cocoon Portable, a smaller system. Both Cocoon models will be available soon ([usa.denon.com](http://usa.denon.com)).—JOEL MATHIS

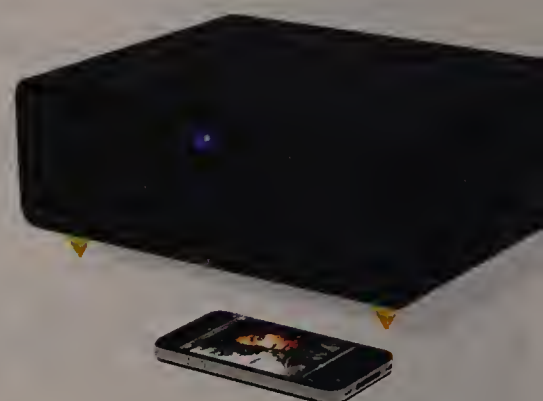


## iDevices iShower

Do you wish you could spend more time listening to music while bathing? The \$100 iShower makes it possible to stream music wirelessly from your iPhone or iPad to a water-resistant speaker system that you can listen to in the shower or bath, or at the pool. The iShower offers a wireless range of up to 200 feet, and the device comes with a clock display so you won't lose sight of when it's time to get out of the shower and get ready for work ([www.ishowerinc.com](http://www.ishowerinc.com)).—JOEL MATHIS

## Scosche RH656

The \$130 RH656 on-ear headphones are designed to deliver balanced sound. They come with a tapline III remote to control playback, adjust volume, and answer or end phone calls. An in-line microphone lets you record voice memos, activate voice control (the headphones are Siri-compatible for iPhone 4S owners), and enjoy hands-free conversations. They come in black or white, and work with Scosche's free tuneQ 10-band EQ iOS and Android app ([www.scosche.com](http://www.scosche.com)).—JOEL MATHIS



## Croon Audio The Original

The \$200 Original speaker uses a Bluetooth connection to play music wirelessly from an iPhone or iPad. It's small—just 10.5 inches wide—and encased in medium-density, black-gloss-finish fiber wood designed for clear sound. It offers 15 watts per channel, and is equipped with triangular feet for positioning on multiple surfaces. If you want to drop a little extra money for style reasons, you can pony up \$230 for a white or gray version, or \$235 for a limited-edition "Lady in Red" version ([croonaudio.com](http://croonaudio.com)).—JOEL MATHIS



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# Create

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## Master Photo Albums in iPhoto for iOS

Learn the logic behind iPhoto's organizational tools for albums

BY DERRICK STORY

If you've spent any time with iPhoto for iOS, you've probably accumulated a few albums on your library shelves. Chances are good that you didn't try to create any of them: They just started showing up, and in a variety of colors at that.

Believe it or not, there's a method to this madness. And once you figure it out, those various albums can actually help you manage the pictures inside. To take full advantage of albums, it's best that you first familiarize yourself with a couple of iPhoto's tagging tools, and then learn the logic behind the program's album creation and organization.

### Photo Tags and Albums

Image tags are directly linked to two types of albums in iPhoto: Flagged and Favorites. When you're viewing an image in iPhoto, you can Flag it or mark it as a Favorite. Reveal these options by browsing the photo and tapping the Edit button in the upper-right corner. Up springs a toolbar at the bottom of the window. Tap the flag icon once to mark the image. Holding your finger on the flag reveals more options, such as Flag All, Last 24 Hours, and more.

If you tap the ribbon icon, you mark the picture as a Favorite. Tap the icon again to remove the denotation. You can use

### Basic Blue

When you first start working in iPhoto, this might be all you see on your library shelves.

Flags and Favorites for any type of sorting. They are merely a way to help you organize your library.

Images can appear in multiple albums, so you should consider these

techniques to be organizational tools, not necessarily image residencies. To get a feel for this organization, let's walk through the process where albums begin to appear on your library shelf.

### Blue Albums

When you first start using iPhoto, you'll most likely see only blue albums. iPhoto creates these albums, which hold images from your Camera Roll or Photo Stream plus those that have been imported, such as via the Camera Connection Kit.

At first, blue albums will be at the top of the shelf, in alphabetical order. When you start working on individual images in iPhoto, the application will create a new tan album titled Edited, and position it on the upper left of the top shelf, pushing the blue albums to the right.

You don't have much control over blue albums. You can't move them around, nor can you choose the key photo for their covers. The Camera Roll album displays the last image as the key photo, and Photo Stream shows the first picture.

### Tan Albums

Once you've tagged an image by using an organizational tool or by applying image edits, iPhoto will create a tan-colored album to contain such pictures. That collection now goes to the top of the shelf. iPhoto has three types of tan albums: Edited, Flagged, and Favorites. Any image you've altered in iPhoto will be stored in the Edited album; alterations include adding a caption. Flagged and Favorites get their own books too.



So if you're pulling together a collection of portraits from Camera Roll, you can flag them and they will automatically appear in their own tan album. An easy way to flag multiple images is to hold your finger down on the flag icon, tap Choose, and then tap all the thumbnails you want to tag. Tap Done when finished.

iPhoto creates another tan album called Photo Box only when you delete a photo from your device after you've edited it. If you remove a photo's edits, caption, or Favorite tag, or if you delete it from a journal, iPhoto moves the photo to the Photo Box album.

## Gray Albums

If you want to take control and create an album composed of shots that you choose, gray is the assigned color. You have basically two ways to create gray albums: Build one in iPhoto or Aperture, and then sync it with the iPad via iTunes (more on that soon); or create an album in the Photos app on the iPad.

Let's start with creating an album on the iPad. Tap the Photos tab in the Photos app. (That's right, the Photos app; you have to go outside iPhoto for a minute to get this done.) Then tap the Share icon in the upper-right corner. Tap the images that you want to collect. A blue checkmark will appear on the thumbnails that you've selected. Tap the Add To button, and then tap the Add to New Album pop-up. Enter the name of the new album, and tap Save. The Photos app will then take you to the Albums view that



**Top Shelf** Once you edit a picture, iPhoto creates a tan album and puts it on the top shelf of the library.

includes your new collection. Now leave the Photos app and launch iPhoto. Lo and behold, the album you just created in Photos appears trimmed in gray on your library shelf in iPhoto.

And since it's a gray album, you can choose the key photo. Open the album and tap the image you want featured. If you're not already in Edit mode, tap the Edit button. Then tap the gear icon in the lower-right corner and select Set As Key Photo. Now, when you go back to the library shelf, your selected image will grace the cover of the gray album.

## Sync With Aperture or iPhoto

If you have images in iPhoto or Aperture that you'd like to reside on your iPad, you can make that connection through iTunes.

1. Create an album in iPhoto or Aperture with the images you want.
2. Open iTunes and select your iPad

from the Devices list in the left column. If you're using Wi-Fi syncing, the iPad will be there. Otherwise, connect the device via its USB cord.

3. Click the Photos tab and check the box for Sync Photos From (Aperture or iPhoto).
4. Click the radio button for Selected Albums, Events, And Faces... and choose No Events from the pop-up menu.
5. Check the album(s) you want to sync.
6. Click the Apply button.

Your images from the Mac will now appear in two places on the iPad. They will appear under the Albums tab in your Photos app, and you'll see them on the Library shelf as a gray album in iPhoto. You can add multiple albums from your Mac to iPhoto for iOS in this manner.

If you decide that you want to remove an album but retain a photo or two from it, just make some sort of image edit to the shots you want to keep on the iPad. This could be something as simple as adding a caption. Once you do so, the picture will also live in the tan Edited album, even after you've disconnected the source album from your iPad.

By no means is iPhoto for iOS as powerful as Aperture for the Mac. But by mastering these few simple techniques, you can bring a semblance of image organization to your iPad.



**In the Gray Zone** If you create your own albums in the Photos app, or sync with Aperture or iPhoto on the Mac, you can have gray albums too.

Senior Contributor **Derrick Story** teaches digital photography on [Lynda.com](http://Lynda.com) and runs a virtual camera club at [The Digital Story](http://The Digital Story) ([www.thedigitalstory.com](http://www.thedigitalstory.com)).

# Canon PowerShot G1 X Review: Amazing Photos, Troubling Limitations

BY TIM MOYNIHAN



If you want the highest photo quality, turn to the 14-megapixel Canon PowerShot G1 X, which in our tests produced the best images we've ever seen from a fixed-lens camera. At \$800,

however, the PowerShot G1 X is very expensive for a fixed-lens model, with a price, feature set, and body more in line with those of an interchangeable-lens mirrorless camera or an entry-level DSLR.

In many ways this is the best fixed-lens camera I've ever used: Image quality is second to none, manual controls are well laid out and easy to access, a tilt-and-swivel LCD screen helps with odd-angle shots, and the automated shooting modes are useful and perform well.

In other important respects, the G1 X is a major letdown: Minimum focal distance is over half a foot away from the subject, autofocus is slow and buggy, the unit has trouble freezing fast action in continuous-shooting mode, and the manual focus controls feel like an afterthought.

It's still an excellent option for experienced photographers or for DSLR owners who want a secondary camera. For landscapes, portraits, and static subjects, it's a great performer. For macro and action photos, it's bound to frustrate you.

## Overall Image and Video Quality

Besides its extensive manual controls, the PowerShot G1 X has one of the best Auto modes we've seen, and it recorded the first Perfect score for image sharpness.

The G1 X also turned in very impressive scores for exposure quality (Superior), color accuracy (Very Good), and lack of distortion (Superior). In image quality, it's probably the best point-and-shoot camera we've ever tested, period.



The camera produces excellent video quality, as well. It shoots 1080p video at 24 frames per second (the setting we used for our tests), as well as 720p or 640-by-480-pixel footage at 30 fps. You can use different white balance settings and a few creative effects in video mode, but you won't get the manual exposure or frame-rate controls for video that you'll find in two of this model's premium competitors, the Panasonic Lumix DMC-LX7 and the Sony Cyber-shot DSC-RX100 ([macworld.com/7956](http://macworld.com/7956)).

The G1 X's test footage impressed our judges, as the camera earned a score of Superior for overall video quality. Video footage we shot with the camera in a well-lit setting looked very sharp, with excellent color fidelity, smooth motion, and fine detail. In our low-light tests, footage looked predictably dark, but had less visual noise and problematic motion handling than the video we've seen from other cameras. Audio pickup through the G1 X's top-mounted stereo microphones was decent (the camera has no mic-in jack for an external microphone).

The PowerShot G1 X is one of only a few fixed-lens cameras available these

days with an eye-level optical viewfinder. Though this viewfinder has some major drawbacks, it will help you squeeze a lot more juice out of the battery if you opt to turn the LCD off. With its LCD on, the PowerShot G1 X is rated for 250 shots per charge of its battery, which puts it in the Good range of our battery-life scores. With the LCD off, the camera is rated at an excellent 700 shots per charge.

## Bottom Line

You simply won't find better all-around image quality from a fixed-lens camera. However, the PowerShot G1 X is far from a must-buy at \$800, especially considering the G1 X's shortcomings. Its macro capabilities, autofocus speeds, optical viewfinder, and continuous-shooting performance are all subpar.

All in all, \$800 gets you the best fixed-lens camera for portraits, landscapes, and sharp shots at night if you use its Handheld Night Scene mode. No camera is perfect, of course, but if Canon fixes the macro mode and the continuous-shooting performance in the PowerShot G1 X's successor, that model will come pretty darn close.



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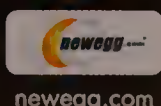
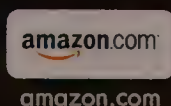
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# Edit Vacation Videos the Easy Way With iMovie on Your iPad

BY HEATH MCKNIGHT



## HOW-TO

With iMovie for iOS on your iPad, you can quickly and easily cut casual videos, spruce them up with themes, mix video with still photos, and add effects, music, and cool-looking titles. Here's how.

### Organize Media

You and your vacation companions are probably shooting photos and videos on different devices—an iPhone, a point-and-shoot camera, a DSLR, or an iPad. The iPad offers several ways to organize media before editing. Having iCloud activated on your iOS devices lets photos appear immediately in your Photo Stream. With a laptop, you can sync videos via iTunes.

**Transfer Your Assets** If you didn't bring a computer on your trip, you can use the iPad Camera Connection Kit or SD Card Reader to import photos and videos onto your iPad from your camera. PhotoSync (\$2; [www.photosync-app.com](http://www.photosync-app.com)) provides an easy way to wirelessly transfer

**The Big Picture** The general interface for iMovie in iOS offers plenty of tools for whipping your videos into shape.

photos and videos from your iPhone to your iPad. Once you have all elements in place, you can start putting them together.

### Edit Your Video

Launch the iMovie app on your iPad, press the Plus (+) button, and select New Project or New Trailer. Select a theme under Project Settings (the gear icon in the upper-right corner); iMovie will add related music, loops, and transitions.

To edit without a theme, just tap the filmstrip or photo symbol to import your media, or the camera icon to record fresh video from the iPad. In the Video window, you can adjust the length of your clips by selecting and moving the orange handles. When you're done, tap the blue arrow to send the clip to the timeline.

As you add clips and photos, iMovie

automatically adds a dissolve transition.

A precision editor built into iMovie for iOS makes it easy to cut your video accurately. To activate it, pinch vertically upward on the transition point. Pinch vertically downward to close it.

### Add Photos

To integrate photos into your video, click the picture icon below the window. This lets you pull up images. The default length for a still is 4 seconds; tap the photo and adjust the orange handles out or in to change the length. iMovie adds a Ken Burns Effect to photos, but you can tweak it. Tap the photo in the timeline; then tap Start in the Project window and pinch the picture to zoom in. Tap End, and move and zoom the image back out to where you want to finish; click Done.

### Get Creative With Audio and Titles

Click the music icon to open the audio options window. You can select Theme Music, Sound Effects, or playlists, albums, and more from iTunes. Double-tap the clip to bring up Audio Clip Settings.

To add titles, double-tap a video clip or photo to bring up the clip settings dialog box. Then select Title Style and choose Opening, Middle, or Ending titles. Type the text in the project window.

### Save and Share

Go to the marquee screen by tapping the My Projects button (the document icon in the project window). With your project selected, click the right-arrow icon at the bottom to pull up the Share Movie To menu. From here, you can send your vacation video to CNN iReport, Facebook, iTunes, Vimeo, or YouTube.

**Heath McKnight**, Web content manager at *doddleNEWS*, is a writer and filmmaker in West Palm Beach, Florida.



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# Adobe CS6 Software Reviews

Creative Suite 6 offers many improvements for video and other media editors

## REVIEW

Adobe released the sixth version of its Creative Suite software for professional artists, designers, and videographers. We review some of its major components below.

### Audition CS6

★★★★; \$349; Adobe; [adobe.com](http://adobe.com)

Adobe Audition CS6 is a greatly enhanced version of what was a solid but incomplete audio editor. New and restored features result in an even more capable program for video, radio, and podcasts.

Audition now has a media browser for navigating to the audio and video assets on your drive. The Skip Selection feature lets you select audio for preview before actually cutting it. Automatic Speech Alignment allows you to replace existing dialogue in a video clip with a different recording of the same dialogue.

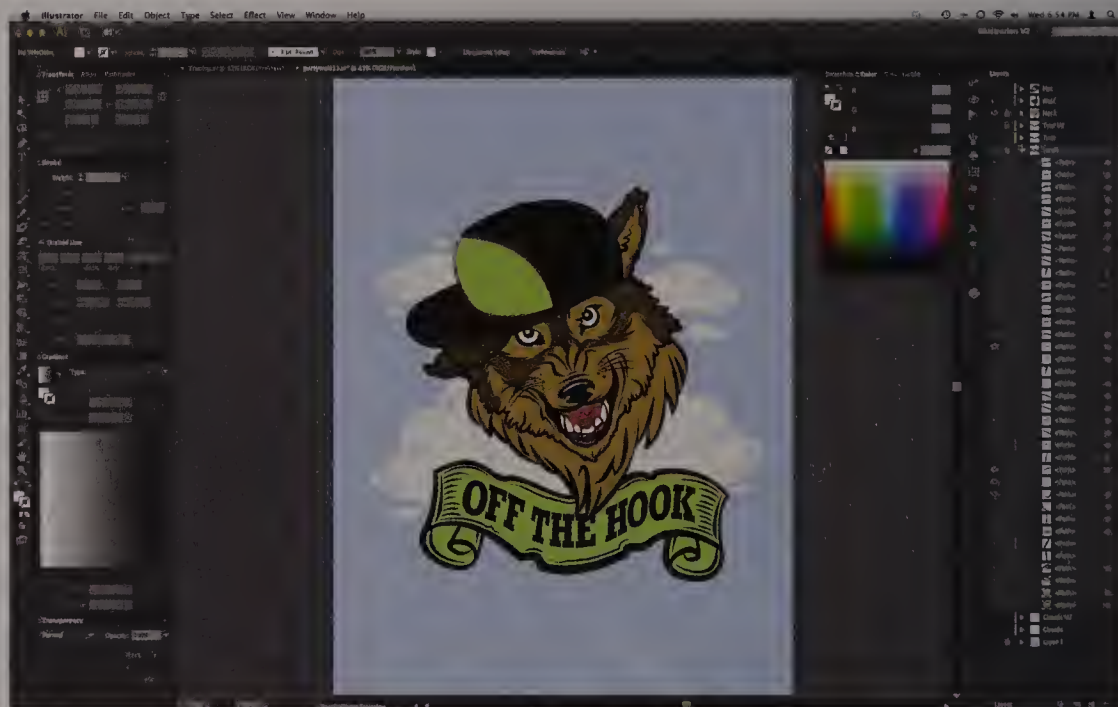
A Trim to Time Selection feature lets you make a selection across multiple clips and trim from each. Audition CS6 supports Open Media Framework import and export, making it compatible with a variety of digital audio workstation applications, and it supports XMP metadata, allowing it to work with radio automation systems.

Restored features include support for control surfaces (hardware mixing boards for controlling audio applications). Working with control surfaces is enhanced by the program's restored track parameter automation feature, which lets you easily record changes to volume, pan, EQ, and effects as you mix. Audio pros not looking for advanced music features now have reason to give Audition CS6 a try, especially if they work with Premiere files.

### Dreamweaver CS6

★★★★; \$399; Adobe; [adobe.com](http://adobe.com)

Adobe Dreamweaver is a solid Web development tool that includes a code



editor, a visual design mode, sophisticated Cascading Style Sheet tools for creating, editing, and managing CSS, and numerous site management features.

And Adobe has added tools to work with new CSS properties, to build mobile-ready websites, and to use Adobe's related services—Business Catalyst, a commercial Web hosting platform, and PhoneGap Build, a cloud-based service for compiling apps for mobile platforms.

Its Web Fonts Manager simplifies the process of using such fonts. However, Dreamweaver doesn't provide tools for working with common Web-type services such as Google's free Web font service or Adobe's own TypeKit. CSS Transitions, which lets you animate changes in CSS over a prescribed period of time, is limited to the few changes of state available to CSS.

And Dreamweaver doesn't provide the same support for popular CSS3 properties like box shadow, text shadow, border radius, and gradients. Nor does Dreamweaver CS6 have tools for inserting or managing HTML5 tags such as <video>, <audio>, <header>, <section>, or <article>.

Dreamweaver CS6 is a powerful Web builder with great code-editing, CSS, and

**Faster Operations** Illustrator CS6 features a speed boost in redrawing and saving complex artwork.

site-management capabilities. But it seems to be slipping behind in some core technologies that Web designers rely on. A lack of HTML5 tools, disorganized CSS creation, and an ineffective design view make it difficult to build sites using contemporary standards and techniques.

### Flash Professional CS6

★★★★; \$699; Adobe; [adobe.com](http://adobe.com)

Flash Professional CS6 is a powerful authoring environment for creating animation and multimedia content for immersive interactivity across desktops, devices, tablets, smartphones, and televisions. The largest markets for such technology are mobile games and devices, and Adobe has focused on these categories.

Its new sprite sheet feature allows you to convert vector art animations into bitmaps, saved in a single large image file. Not only does Flash CS6 make the process of creating sprite sheets easier than in the past, but using them also lets you quickly and efficiently adapt your



game to different devices. Flash CS6 features Adobe AIR mobile simulation, so you can test for accelerometer and GPS functions; the simulator permits you to enter GPS coordinates to see how your app would respond. Also new and useful is SDK support for multiple AIR versions.

Adobe is offering a way to create enhanced realism and fluidity with Flash Professional CS6. This upgrade is a must-have for game developers.

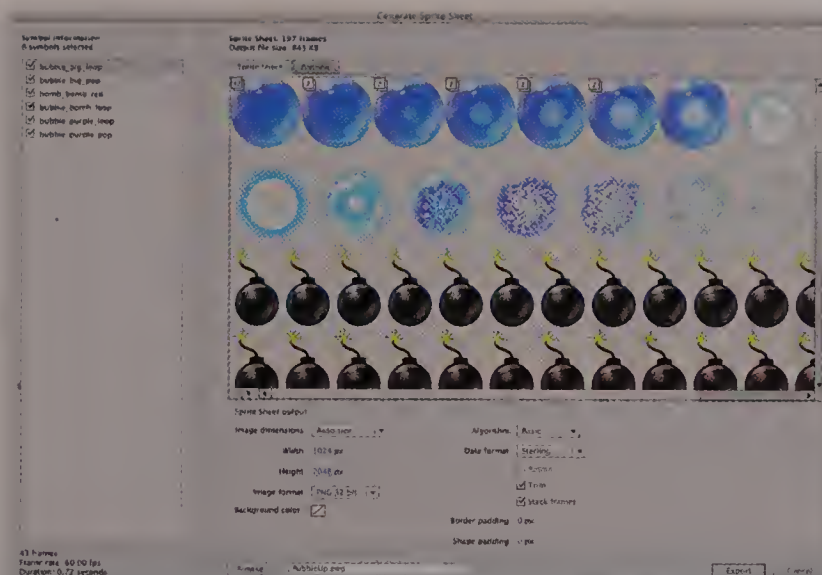
## Illustrator CS6

🔗🔗🔗; \$599; Adobe; [adobe.com](http://adobe.com)

Illustrator CS6—the program’s 16th release—offers an interface overhaul, an engine tune-up, and three major new features: Gradient on Strokes, Pattern Creation, and Image Trace. The program has adopted a low-contrast and gorgeously consistent grayscale chic with redrawn icons, reworked toolbars, and tidied panels.

Illustrator CS6 is an important release: It has migrated from 32-bit to 64-bit and has gotten a speed boost in redrawing and saving complex artwork.

One clever new feature lets you quickly create complex patterns that you can apply to any object as a fill. Unfortunately, the patterns often show seams on screen—and if the pattern tile includes decimal measurements, the seams carry over into file exports. In CS6, Image Trace has replaced Live Trace, improving ease of use, efficiency, and speed. Tracing is also much simpler. If you’re not quite satisfied with the preset’s output, you can always fine-tune it. Just one quibble: Image Trace still doesn’t permit you to ignore an image



**Animated Vector to Bitmap** Flash CS6’s new sprite sheet feature exports an animation as a series of frames, all saved in a single file.

application.

The Project panel has enhancements to fully employ the icon view’s visual approach to organizing clips.

You can scrub video playback (without audio) by moving the mouse pointer over a thumbnail image; called hover scrub, this method provides a much better reminder of a clip’s contents. The displays for source and edited video are the most conspicuous change. You get a more streamlined arrangement of controls.

In Premiere Pro CS6, you can set markers with a simple default keyboard shortcut. The new Markers panel lists a selected clip or sequence’s markers with their thumbnail icons and comments. Scan the comments, and you’ll easily find the frame each one refers to.

Premiere Pro CS6’s trimming mode feels more integrated; it also shows off its improved playback performance. The master audio meters are more precise, scaling according to how you resize the panel. This update also has several subtle changes to the Audio Mixer.

Premiere Pro CS6 makes its Three-Way Color Correction effect more intuitive, introduces a Rolling Shutter Repair effect, and borrows After Effects’ Warp Stabilizer. But the ability to apply an effect to clips just by double-clicking will make the biggest difference in an editor’s routine.

Adobe’s Mercury Playback Engine now takes advantage of GPUs found in certain MacBook Pros. Even without this help, video performance has improved. The interface responds to trackpad gestures.

Premiere Pro CS6 stands on its own merits, extending the performance gains of CS5 to mobile editors. What makes CS6 a worthy upgrade is its focus on enhancing fluent video editing.

background if it is predominantly one color, other than white.

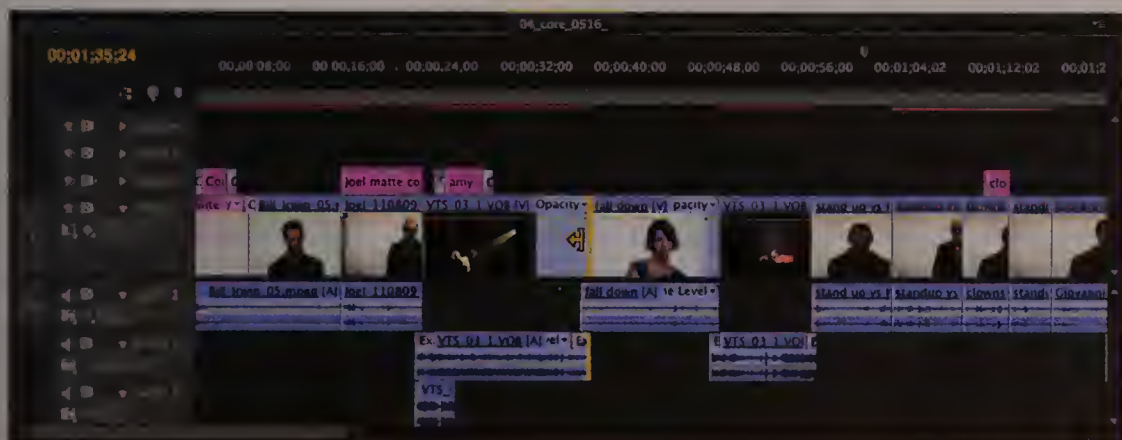
Illustrator users often find the application difficult to master because it requires constant toggling between tools, a chore that is most efficiently accomplished via keyboard shortcuts. This still leaves room for improvement.

Illustrator CS6 feels less like a full upgrade than a refinement. Even so, if you’ll make heavy use of the new tools, upgrading will be worthwhile.

## Premiere Pro CS6

🔗🔗🔗; \$799; Adobe; [adobe.com](http://adobe.com)

Adobe Premiere Pro CS6’s interface has a comprehensive redesign that improves editing workflow. The latest release also integrates two newcomers to Creative Suite: Adobe Prelude for ingesting and logging file-based media, and Adobe SpeedGrade, a color correction and grading tool. The companion DVD authoring program, Encore, is now a 64-bit



**Fluid Editing** Both in trimming mode and in the Timeline, it is now easier to perform different types of edits in Premiere Pro without making a trip to the Tools panel.



# Help Desk

Answering Your Questions and Sharing Your Tips about Getting the Most from Your Mac

## Mac 911

Solutions to your most vexing Mac problems

BY CHRISTOPHER BREEN



### Manage iPad Photos

**Q:** My parents bought an iPad last year to use primarily when traveling, for email, and particularly to manage the photos they shoot. But the process is confusing. Can you shed some light on how this is supposed to work?

Eric Jacobs

**A:** When you attach the iPad Camera Connection Kit adapter to the iPad and then import photos, the photos go into two albums: Last Import and All Imported. You can't opt to import them into a different album, but you can create a new album and copy the images to that album.

To do so within the Photos app, tap the Albums tab, tap the Edit button in the top

right corner of the iPad's screen, and then tap the New Album button in the top left corner. Name the album and tap Save. The resulting screen will show Add Photos To *nameofalbum* and, by default, all the photo events currently on your iPad (you can also choose Albums, Photo Stream, and Photos). Tap an event or album, and you'll see all the images within it. Tap Select All Photos to select them all, or tap individual images to select each one. When you're happy with your selection, tap Done to copy the images into your new album.

To add or remove images later, tap the album to open it; tap the Share button in the top right corner; and, in the Select Photos screen, tap Add Photos for a process similar to the one I just outlined. Or tap images you want to delete, and

**Improved iPad Photo Organization** Photos is a great app for viewing images, but Photo Manager Pro is a better option for image organization.

then tap Remove. If you'd like to copy images between albums, tap the Share button, select the images you want to copy, tap the

Copy button, open another album, tap an empty area in that album, and tap Paste. The images will appear in the second album as well as in the original album.

I use Linkus's \$3 Photo Manager Pro ([macworld.com/7912](http://macworld.com/7912)) for much of my iPad photo management. It lets me move (rather than simply copy) images, password-protect albums, transfer files via FTP, and view and download images from a Web browser. It also includes a Favorites feature for marking and viewing images you especially like, and lets you rate your images on a scale of one to five stars (see "Improved iPad Photo Organization"). If you're unsatisfied with the Photos app, give Photo Manager Pro a go.

### The Ills of App Store Licensing

**Q:** How is a business supposed to manage apps purchased in the Mac App Store and iTunes Store once an employee leaves the company? Some apps cost more than \$200 and yet



#### Have a Problem?

Go to the Mac 911 forum ([macworld.com/2467](http://macworld.com/2467)) to ask about your misbehaving Macs and applications.



aren't transferable to another user. Can you shed light on what some other large corporations are doing to manage their apps and devices?

Via the Internet

**A:** Apple's App Store Volume Purchasing for Business program lets you buy iOS apps in bulk using a corporate credit card and account. It allows you to purchase a license for multiple copies of an app and keep track of when they're redeemed. If someone deletes apps from a supervised device, you can add them again without using an additional license. If you use Apple's Configurator application to remove an app from a device, you can assign its license to a different device that the copy of Apple Configurator likewise supervises on a particular Mac. This program applies only to iOS apps, not those purchased from the Mac App Store.

Of course, your company could set up a specific Apple ID and password for corporate purchases and share that information with users who need a certain app. But enabling multiple users for an app cheats the developer of revenue. Also, what's to prevent employees from buying anything they want—apps, movies, music, TV shows, books—with that Apple ID? And Apple may someday limit how many devices you can install an app on.

Another option is to give your IT department a corporate purchasing ID and insist that only IT purchase and install apps using this ID. That prevents workers from abusing an Apple ID, but it doesn't address the cheating issue—and it forces IT to field endless new app requests.

## Mountain Lion and the AirPort Utility Installer

**Q:** I have an older AirPort Express base station. My new Mountain Lion's version of AirPort Utility doesn't work with this base station. When I tried to select the base station, a message told me I needed AirPort Utility 5.6. I downloaded that version, but the OS won't let me install it because it's not supported. What do I do?

Nick Hamilton

## Bugs & Fixes BY TED LANDAU

Based on reviews I've read (and on my own experience), the consensus view appears to be that OS X Mountain Lion is a generally stable update with a minimum of significant problems, especially for a 10.x.0 release. Still, things can and occasionally do go wrong. Here's a roundup of some post-install Mountain Lion problems you may encounter.



**Log-in Trouble** According to Apple, "After upgrading to OS X Mountain Lion, your Mac may keep returning to the login window after you have logged in." This frustrating state of affairs is clearly something you'll want to fix ASAP.

The most likely culprit is an incompatible log-in item. OS X makes an effort to disable incompatible software automatically at startup. But apparently, some apps may still sneak in under the fence. The solution is to reboot your Mac in Safe Mode (by holding down the Shift key until the gray Apple logo appears). This prevents your log-in items from loading. Now go to System Preferences → Users & Groups → Login Items. Look for any item that has a prohibitory sign (a gray circle with a slash) over its icon. This symbol indicates an incompatible item. Delete any such items and restart your Mac normally. All should now be well.



**No Wi-Fi after Waking from Sleep** Numerous users have reported that after they wake their Mountain Lion-upgraded Mac from sleep, the Mac refuses to reconnect automatically to the local Wi-Fi network. Rendering the situation even worse, attempts by the user to reconnect manually may lead to the appearance of a persistent spinning

**A:** That version of AirPort Utility will run on your Mac (even under Mountain Lion) and will work with your base station. The trouble is with the installer, which refuses to install a perfectly fine utility.

beachball, making reconnection very nearly impossible.

A solution that has worked for some users is to go to the Network preference pane and click the Advanced button. From the Wi-Fi tab, delete all the known networks. Return to the main Network display and delete Wi-Fi from the Services list. Finally, add a new Wi-Fi service by clicking the plus-sign (+) icon at the bottom of the list section.

Unfortunately, this is not a sure-fire fix. Many users with this symptom continue to struggle to find a cure. Some suggest that incompatible third-party software is the root cause. A few have found that turning off Bluetooth eliminates the symptom.



**Mail Replies from Wrong Address** The new version of Mail in Mountain Lion may have trouble assigning the correct address for email replies. If you have multiple email accounts, when you select to reply to an email, Mail should use the account that received the message as your From address. This should override any selection you have made for a default address to use with new messages. That's the way things worked in Lion.

The problem is that Mail may now instead use your default address for replies, ignoring it when the received message comes from a different account. However, you may not see this symptom at all. When I tried to replicate it, I could not do so; I always got the correct return email account when replying to a message.

Senior Contributor **Ted Landau** is the founder of MacFixIt ([www.macfixit.com](http://www.macfixit.com)). Share your problems at [bugs@macworld.com](mailto:bugs@macworld.com) or on Macworld.com's Mac 911 forum.

The workaround is to extract the utility from the installer package. CharlesSoft's \$20 Pacifist ([macworld.com/7913](http://macworld.com/7913)) allows you to explore and extract the contents of .pkg package files, .dmg disk images, and



.zip, .tar, .tar.gz, .tar.bz2, and .xar archives. An alternative is Timdoug's free Unpkg ([macworld.com/7914](http://macworld.com/7914)). Launch Unpkg and drag the package file into its window, and the package expands into a folder that you can root around in for the item you seek.

## Mountain Lion's 'Save As'

**Q. I was thrilled to see the Save As command reappear in Mountain Lion after Lion dropped it. But it seems not to work the way it once did. Why?**

Edward Bennet

**A.** In the past, choosing Save As created a new document that included all changes you'd made up to that point. The original file closed (in the form it had at the most recent Save, not at the Save As) and the new Save As document stayed open. But with Mountain Lion, when you hold the Option key down and choose Save As from the File menu, the

OS saves the original file and creates a new one (see "Old Name, New Behavior"). With Mountain Lion's Auto Save feature, you can then click the Auto Save

triangle in the document's title bar and choose Browse All Versions (or choose File → Revert → Browse All Versions). In the Time Machine interface that appears,

## Mac 101

### An Alternative for AirPlay Mirroring

**Q:** I've installed Mountain Lion on my 2010 MacBook Pro, but I don't see the AirPlay Mirroring option anywhere. Does it work with this MacBook?

Michael Anders

**A:** Regrettably, no. AirPlay Mirroring works with these models: iMac (midyear 2011 or newer), Mac mini (midyear 2011 or newer), MacBook Air (midyear 2011 or newer), and MacBook Pro (early 2011 or newer).

Fortunately, you have an alternative: Squirrels' \$10 AirParrot ([macworld.com/7915](http://macworld.com/7915)). This application, compatible with Mac OS X 10.6.8 or higher (or Windows XP or higher), allows you to mirror your computer's video and audio to a second- or third-generation Apple TV. It can mirror your complete desktop at up to 1080p on a 3G Apple TV or mirror just a specific application (without background desktop clutter), and it can extend your desktop between your Mac and your TV (this feature works only with OS X).

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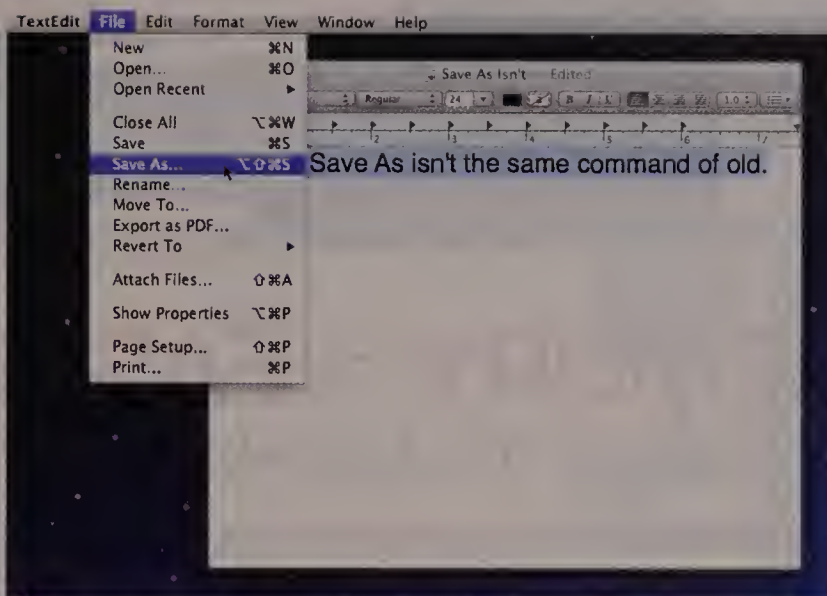
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you can return to any previous iteration of the document.

Restoring an old command name while changing its functionality seems odd. But this implementation of Save As works only in applications supporting Mountain Lion's Auto Save function—currently Preview, TextEdit, and Pages. Other apps retain the original Save As scheme.

To approximate the Save As behavior of old in those applications without having to revert documents via the Time Machine interface, try this: In the General preference pane, select the Ask To Keep Changes When Closing Documents option. Close System Preferences. Launch the application you want to work with and make a change. Save the document. Edit it and add more content. Choose File → Duplicate (Shift-⌘-S) so you have two identical documents open. Close the original document. Because of the option you enabled in the General system preference, you're offered the option to



**Old Name, New Behavior** The Save As command looks the same, but it behaves differently from the same-name command of old.

revert your changes, thus giving you a saved version of the original copy.

If you'd like to return the traditional Save As command to Mountain Lion, launch Terminal (/Applications/Utilities), enter the command **defaults write -g ApplePersistence -bool false**, and press Return. Relaunch any open

applications that support the new Save As, and they'll show the Save As command by default and invoke its old behavior. To reverse this change, return to Terminal and enter **defaults write -g ApplePersistence -bool true**. Relaunch the affected applications, and they will revert to the default behavior.

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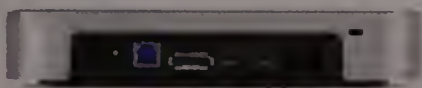
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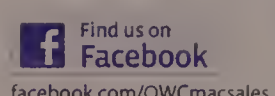
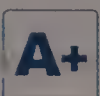
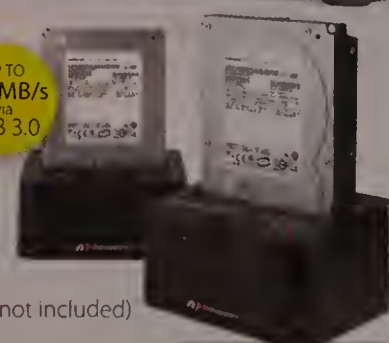


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# My 21 Years with Photoshop

Why I've been using that one app longer than any other

It was August 1991, I was 23, and I had a plane ticket that would take me from New Haven, Connecticut, to Seattle, Washington. I was headed to the Pacific Northwest with my degree in graphic design; my mad skills as a typesetter, layout artist, imagesetting expert, computer programmer, and Internet guru (seriously, even in 1991); and a plan to apply for jobs at the top design studios.

Then I got a call from Charles Altschul, a former teacher and close acquaintance. He had taken over as education director at the Eastman Kodak Center for Creative Imaging in Camden, Maine, where photography, design, and illustration pros could learn how to make the transition into the digital age—and he wanted my help.

Adobe Photoshop 2.0 was a core part of the operation. We had it installed on 100 Mac IIx systems, and it was the processing hub for all of our images, whether created on computers, captured by the Kodak DCS 100 digital camera, or scanned. Every student learned how to use it.

Fortunately, Yale University was an early adopter of computer-aided typography, layout, and imaging, so I had cut my teeth on Photoshop 1.0. While I was familiar with Apple II drawing programs and MacPaint, I'd never encountered anything as intuitive and simple for creating and adjusting images as Photoshop. The first time I used its nonlinear Levels tool, I didn't quite hear angels trumpeting, but it was close. I've been using Photoshop ever since.

## Early Immersion

Working at the center meant working in Photoshop—a lot. In one project we helped photographer Gregory Heisler create the cover for *Time* magazine's "Man of the Year" issue. The subject: Ted Turner. Heisler imagined a glowing sphere of TV screens, each displaying a separate CNN image, cracked open to reveal Turner's face.

To make that image, he shot a portrait of Turner and turned hundreds of stills from CNN footage into slides. We then scanned those images, selected and color-corrected a few, and assembled them into a single file. We applied the Spherize filter, cut up the image, and finally layered Ted Turner's image underneath it. And we did almost all of that work in Photoshop.

Photoshop wasn't the only digital imaging app we used. We also turned to Letraset's ColorStudio, which offered channels, layers, and a programming language for combining effects. Some of the center's instructors swore by it and thought of Photoshop as an also-ran. ColorStudio originally cost \$2000, compared to about \$900 for Photoshop at the time.

But Photoshop had two advantages. It supported plug-ins that provided features missing from the core program. More important, with just a little training, mere mortals could work with it. ColorStudio required full immersion.

## Outlasting Its Competitors

Photoshop won that battle, and over the subsequent 20-plus years it kept winning the war. I've used every release. I used it to edit photos and figures for countless articles and books. As it became less of a

prepress tool, it found new life in creating and formatting Web graphics. It played a central role in introducing raster graphics and type layers, which enabled the use of vector art and unrasterized fonts online.

While Photoshop was new and exciting 20 years ago, over time it became like the air I breathed. I now use just a tiny percentage of its current feature set, but I still head to the Levels dialog box whenever I want to adjust dynamic range and white balance; that essential tool has remained almost unchanged in nearly two decades.

Lots of Photoshop alternatives have emerged over the years, and I use some of them myself. I often launch Lemkesoft's GraphicConverter when I need to rotate or crop an image. I usually fire up Adobe Lightroom to work with a photo library.

In that same time period, I've also turned to other programs for big chunks of my working and personal life. Along the way, I've used Adobe PageMaker, Mozilla Firefox, and Bare Bones Software's BBEdition. I lived in Microsoft Word for decades, though I now prefer Apple's Pages.

But Photoshop is one of the few pieces of software I've consistently relied on for more than 20 years, and it remains an indispensable part of my toolkit.

Macworld senior contributor **Glenn Fleishman** has supervised Yale's imagesetting office, and been a course manager at the Eastman Kodak Center for Creative Imaging and a managing editor for Open House, a book publisher.



While Photoshop was new and exciting 20 years ago, over time it became like the air I breathed.



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